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1938

* Twenty First Edition

SEED TRADE *Buyers Guide* & DIRECTORY

Published by

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Chicago, Ill.

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1938—21st Edition

We have the pleasure to present this year for the first time in history this *new book-form binding*. This style, without question, is the most durable to be obtained. Because of the constant usage of this book producers have recommended it.

This is the only complete book published containing listings of all seed growers, wholesalers and jobbers, also the principal manufacturers of agricultural and horticultural supplies.

It has been our endeavor to limit the listings to actual growers, wholesalers and manufacturers who are generally recognized in the trade as being privileged to such classification.

This Buyers Guide and Directory circulates to the most important dealers in the United States, Canada and thirty-four foreign countries.

An immense amount of work has been necessary to produce the editorial material, as well as to properly classify and revise the listings. A careful study of the index will enable you to quickly ascertain the desired information.

Three hundred and twenty-three advertisers, the greatest number ever represented in any publication in the seed trade, have inserted messages in this 1938 edition.

The publishing of this book was made possible through the support of these advertisers whose names appear in bold face type in the directory section. Your patronage of these firms will be appreciated by the publishers.

The response you have given the previous editions confirms our belief that you will find this improved 1938 Seed Trade Buyers Guide and Directory more helpful and useful than ever before.

Cordially yours,

L. H. Smith

PUBLISHER

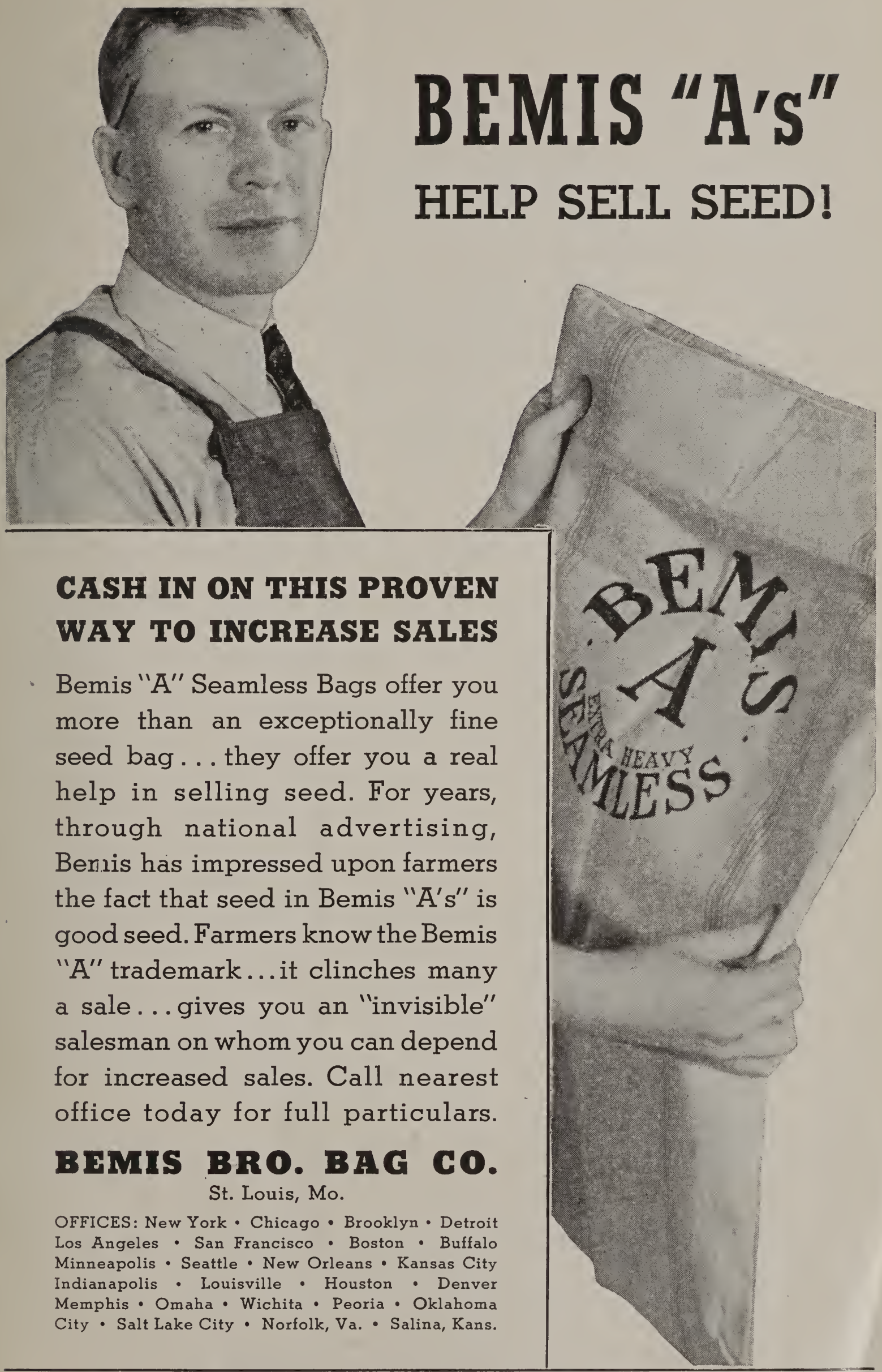
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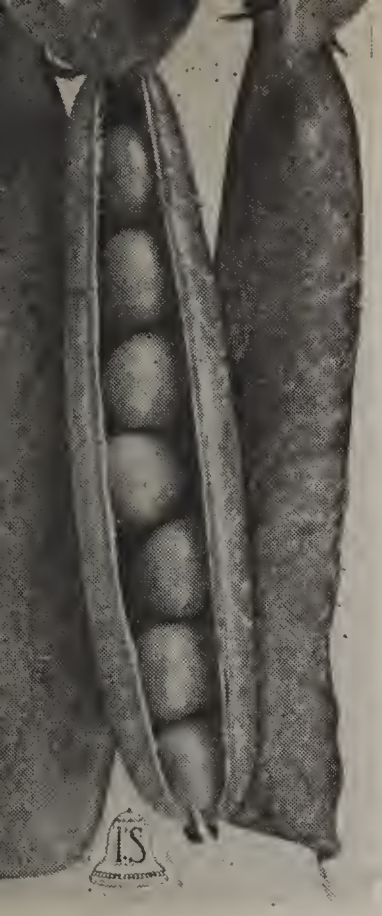
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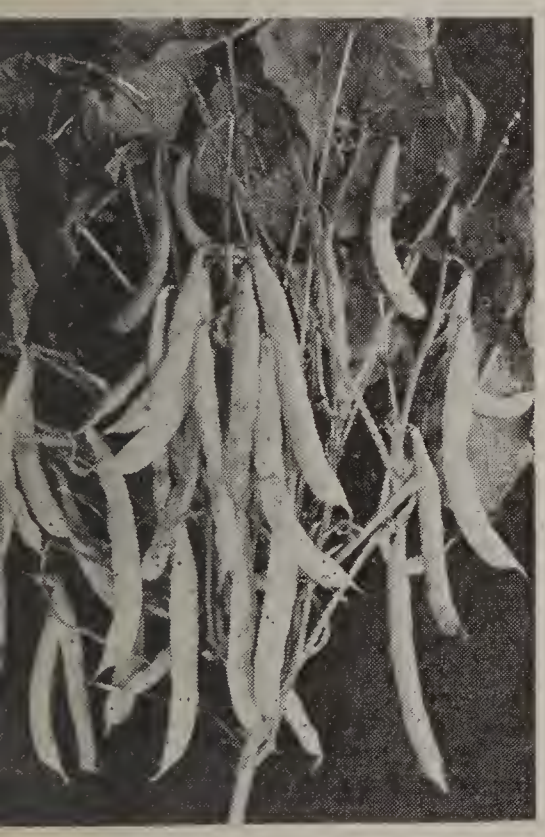
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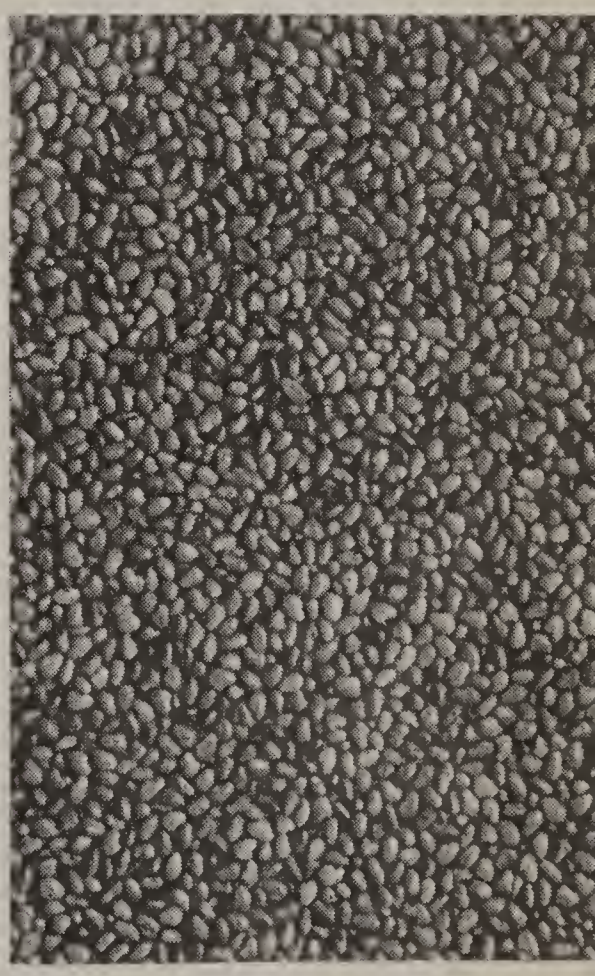


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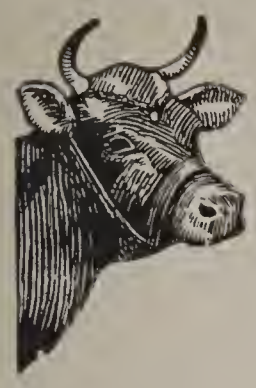
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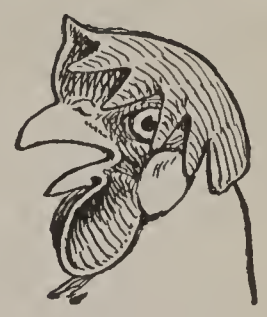
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STEADY DEMAND . . . . LIBERAL DISCOUNTS SUCCESSFULLY USED FOR OVER 40 YEARS

Dr. LeGear's
DOG PRESCRIPTIONS

	Retail	Dozen
Cod Liver Oil Concentrate Tablets	$0.50	$4.00
Cod Liver Oil Concentrate Tablets	1.00	8.00
Round and Hook Worm Capsules for Small Dogs	.50	4.00
Round and Hook Worm Capsules for Medium-Large Dogs	.50	4.00
Tape Worm Tablets	.50	4.00
Mange Prescription	.50	4.00
Tonic Condition Tablets	.50	4.00
Kennel Disinfectant	.50	4.00
Flea and Lice Powder	.25	2.00
Flea and Shampoo Soap	.25	2.00
Laxative Tablets	.50	4.00
Pepsin Compound Tablets	.50	4.00
Special Tablets (for Reducing Fever)	1.00	8.00
Nerve Sedative Tablets	1.00	8.00
Eye Lotion	.50	4.00

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represent the same high quality and successful use that have made Dr. LeGear's Dog Prescriptions so popular with seedmen and their customers all these years. Dog owners, poultry raisers and farmers know Dr. LeGear's preparations as products of **proved merit** . . . . prepared by scientists of broad experience . . . . sold on the basis of absolute satisfaction. Your customers take no risk. The demand for Dr. LeGear Prescriptions is being stimulated by a much larger, more forceful advertising campaign.

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DR. LE GEAR'S
LIVE STOCK, POULTRY *and* DOG PRESCRIPTIONS
CONTAIN THE MOST EFFECTIVE INGREDIENTS KNOWN TO MODERN VETERINARY SCIENCE

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TRADE MARKS AND SLOGANS

MANY SEEDSMEN, as well as manufacturers, have spent years in building up a demand for their trade-marked merchandise and buyers have acquired the habit of calling for these brands. Sometimes a buyer will not remember the name of the manufacturer or seedsman who produces a certain brand. This alphabetical list of trade-marked brands should prove useful in such cases. For names of firms using trade marks not listed here, write us.

SEEDS

Acme—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

AH—garden seeds — A. Hansen, Kastrup, Denmark.

A. H. 291—cauliflower seed—A. Hansen, Kastrup, Denmark.

Antelope — seeds — Nebraska Seed Co., Omaha, Nebr.

Appel—field seeds and feed products — C. H. Appel Commission Co., St. Louis, Mo.

As-Always-Sure—garden and flower seeds — Abraham Sluis, Ltd., Enkhuizen, Holland.

As Good as Grow for You to Sow—garden seeds—D. V. Burrell Seed Growers Co., Rocky Ford, Colo.

Barteldes Seeds—field and garden seeds—Barteldes Seed Co., Lawrence, Kans.

Beaver—timothy seed—Steele, Briggs Seed Co., Toronto, Ont., Canada.

Bee Hive—Hardy Utah alfalfa—Peppard Seed Co., Kansas City, Mo.

Big Chief—field seeds—Northwestern Seed Co., Keokuk, Iowa.

Blackfoot — alfalfa seed — Idaho Grimm Alfalfa Seed Growers Assn., Blackfoot, Idaho.

Blackfoot—alfalfa seed—W. H. Crossland, Milwaukee, Wis.

Blood Tells—seeds—Rogers Bros. Seed Co., Chicago, Ill.

Blue Bell—field seeds—Ross Seed Co., Louisville, Ky.

Brent's Premium—field and garden seeds—C. S. Brent Seed Co., Lexington, Ky.

Brown's Tested Seeds—They Grow—garden seeds—Alfred J. Brown Seed Co., Grand Rapids, Mich.

Buckeye—seeds—The J. M. McCullough's Sons Co., Cincinnati, Ohio

Buist's Prize Medal—garden seeds—Robt. Buist Co., Philadelphia, Pa.

Burpeeana—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Burpee's Seeds Grow—W. Atlee Burpee Co., Philadelphia, Pa.

Casco—field, garden seeds, bulbs and plants—Cuff-Archias Seed Co., Brawley, Cal.

Central Park—lawn seed—The J. M. McCullough's Sons Co., Cincinnati, Ohio.

Clause—seeds—L. Clause, Inc., Bretigny-sur-Orge, France.

Columbia Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Compass Brand — field seeds — Davenport Seed Co., Davenport, Iowa.

Crown Quality Brand—garden and field seeds—Martin Lane Co., Vernon, Texas.

Crystal—field seeds—Cargill, Inc., Minneapolis, Minn.

Daehnfeldt's—seeds—L. Daehnfeldt, Ltd., Odense, Denmark.

Daybreak—field seeds—Chambers Seed Co., Louisville, Ky.

Disco—field and garden seeds — Dakota Improved Seed Co., Mitchell, S. D.

Duryea's Central Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Eagle—alsike seed — Steele, Briggs Seed Co., Toronto, Ont., Canada.

Emerald—field seeds—Steele, Briggs Seed Co., Toronto, Ont., Canada.

Ermine—timothy seed — Steele, Briggs Seed Co., Toronto, Ont., Canada.

Evergreen—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Falcon—field seeds—Cargill, Inc., Minneapolis, Minn.

Fargo—field, garden seeds, seed grain—Magill & Co., Fargo, N. D.

Farmer Brand—farm and garden seeds—Farmer Seed & Nursery Co., Faribault, Minn.

F J F—seeds—Farley Seed Co., Bellingham, Wash.

Floradale — seeds — W. Atlee Burpee Co., Philadelphia, Pa.

Fordhook— seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Funk Farms—field seeds—Funk Bros. Seed Co., Bloomington, Ill.

Gilt Edge—field seeds—National Seed Co., Louisville, Ky.

Gladflower—flower seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Gold Medal — field seeds—Louisville Seed Co., Louisville, Ky.

Gold Standard—red top seed—J. M. Schultz Seed Co., Dieterich, Ill.

Goldinhart—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Gopher Brand—farm seeds—Farm Service Co., Minneapolis, Minn.

Gramercy Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Greene Park—lawn grass seed—Page Seed Co., Greene, N. Y.

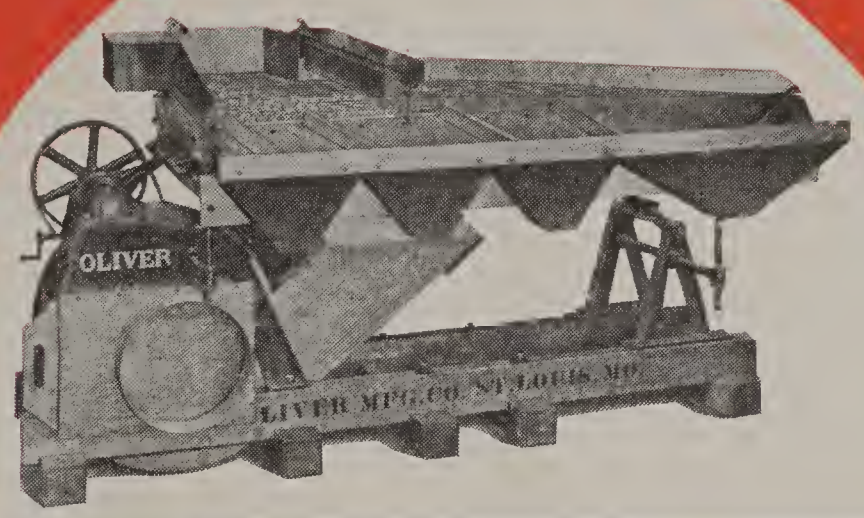
Greenway—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.

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OLIVER

Gravity SEPARATOR

for
FIELD
FLOWER
and
GARDEN
SEEDS
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PEAS
BEANS
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Etc.



THE MOST COMPACT ...MOST EFFICIENT AND MOST ECONOMICAL SEPARATOR ON THE MARKET

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Greatest Improvement in a Deck for Separating all Fine Seeds! Built to Fit Any Make of Gravity Separator.
and the
OLIVER BAG CLEANER
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Oliver Gravity Separators are manufactured under the following patents and patent applications: Steele-Hulsizer; Sparks; Sutton-Steele & Steel, and others.

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Try the Oliver in your own plant at our risk. If you are not entirely satisfied, ship it back—freight collect.

OLIVER MFG. CO.

1412 South 8th St. St. Louis, Mo.

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Haco—red cabbage seed—Hjalmar Hartmann & Co., Copenhagen, Denmark.
Harvest—field seeds—Wm. G. Scarlett & Co., Baltimore, Md.
Hawk—alsike seed — Steele, Briggs Seed Co., Toronto, Ont., Canada.
Hawk-Eye—field seeds—Hamilton Seed & Coal Company, Cedar Rapids, Iowa
Helios— cauliflower seed — J. E. Ohlsens Enke, Copenhagen, Denmark.
Holmes—There's no place like Holmes for seed—field, garden, flower seeds—Holmes Seed Co., Canton, Ohio.
Honor—field seeds—Stanford Seed Co., Buffalo, N. Y.
Idatah—field seeds—Occidental Seed Co., Salt Lake City, Utah.
Interstate—seeds, grain, potatoes—Interstate Seed & Grain Co., Fargo, N. D.
Isbell—seeds—Isbell Seed Co., Jackson, Mich.
It Pays to Sow 'Em—field seeds—Ross Seed Co., Louisville, Ky.
J. Chas. McCullough Seed Co.— seeds — J. Chas. McCullough Seed Co., Cincinnati, Ohio.
K—field seeds—H. C. King & Sons, Battle Creek, Mich.
Kanneb—alfalfa seed—Union Seed Warehouse, Kirwin, Kans.
Kelly's Seeds Grow—field seeds — Kelly Seed Co., Peoria, Ill.
Keystone—seeds—Corneli Seed Co., St. Louis, Mo.
Knox's Quality—farm and garden seeds—Paramount Seed Co., Stockton, Calif.
Lago—garden seeds — F. Lagomarsino & Sons, Sacramento, Calif.
Land o' Lakes—field seeds—Land o' Lakes Creameries, Inc., Minneapolis, Minn.
Lawler's—bulbs—Geo. Lawler, Gardenville, Tacoma, Wash.
Leonard's Seeds—Michael - Leonard Seed Co., Chicago, Ill.
Liberty—field seeds—Stanford Seed Co., Buffalo, N. Y.
Lilly's—seeds—Chas. H. Lilly Co., Seattle, Wash.
Lion Brand—red clover seed — Steele, Briggs Seed Co., Toronto, Ont., Canada.
Loechner—garden, field, flower seeds—Loechner & Co., New York, N. Y.
Lone Star—bulbs — American Bulb Co., Chicago, Ill.
M—field seeds—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
Marvelawn—grass seed—Page Seed Co., Greene, N. Y.
Master Farmer—farm and garden seeds—Farmer Seed & Nursery Co., Faribault, Minn.
Mauthner—field and garden seeds—Edmund Mauthner, Ltd., Budapest, Hungary.
Maybell Pure—field seeds—Ross Seed Co., Louisville, Ky.
Meeters—onion sets—Meeters, Inc., Lansing, Ill.
Mile High—seeds—Grand Junction Seed Co., Grand Junction, Colo.
Milford—grass seed—F. H. Woodruff & Sons, Milford, Conn.
Milford Green—lawn seed mixture—F. H. Woodruff & Sons, Milford, Conn.
"Nasiona"— seeds —"Nasiona," Danzig.
Nbsco—field seeds—N. Bonahoom Seed Co., Hastings, Nebr.
Newday—farm seeds—Newday Seeds, Inc., Fargo, N. D.
None Excel Condon's Sure Crop Seeds—garden, grass seeds—Condon Bros., Seedsmen, Rockford, Ill.
Northland Brand—farm seeds—Northrup, King & Co., Minneapolis, Minn.
OE—flower and garden seeds—J. E. Ohlsens Enke, Copenhagen, Denmark.
Old English—lawn seed—Philadelphia Seed Co., Philadelphia, Pa.
Old Homestead—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.
Olds—field seeds—L. L. Olds Seed Co., Madison, Wis.
Olsen—garden and grass seeds — Chr. Olsen, Ltd., Odense, Denmark.
O & M—field, garden, lawn seeds and seed grain—O & M Seed Co., Green Springs, Ohio.
Oriole—field and bird seeds—Wm. G. Scarlett & Co., Baltimore, Md.
Orisco—vegetable seeds—Oriental Seeds & Plants Co., Inc., San Francisco, Calif.
P—seeds—A. S. Paterson & Co., Ltd., Dunedin, New Zealand.
Paramount—field and garden seeds—Paramount Seed Co., Stockton, Calif.
Paseco—seed corn—Page Seed Co., Greene N. Y.
Pax Brand—field, grass, garden seeds — Kelly-Western Co., Salt Lake City, Utah.
PBCo—field seeds—Peterson-Biddick Co., Wadena, Minn.
PepSeeCo—grass and field seeds—Peppard Seed Co., Kansas City, Mo.
Pine Tree—farm seeds—Albert Dickinson Co., Chicago, Ill.
Platte—seeds—Nebraska Seed Co., Omaha, Nebr.
Pride of the North—seeds—Twin City Seed Co., Minneapolis, Minn.
P—WSCO—garden seeds—Pieters-Wheeler Seed Co., Gilroy, Calif.
Quaker — field seeds — Philadelphia Seed Co., Philadelphia, Pa.
Quality Seeds That Grow—field and garden seeds — Valker - Christensen Co., Inc., Minot, N. D.
Radway's—seeds—I. L. Radwaner Seed Co., New York, N. Y.
Radway's Central Park—lawn seed—I. L. Radwaner Seed Co., New York, N. Y.
Radway's Tested Seeds—I. L. Radwaner Seed Co., New York, N. Y.
Red Bird—field seeds—Lewis Implement & Seed Co., Louisville, Ky.
Reliable—timothy seed—J. M. Schultz Seed Co., Dieterich, Ill.

Directory Section Index—Pages 2-4-6-8-10

They're coming back for More... and More!





Yes—it's the outstanding news in the seed trade today—the story of how farmers are flocking back season after season for Dickinson's NOD-O-GEN—the pre-tested inoculator.

And with cash registers jingling—any NOD-O-GEN retailer will tell you with a smile how the:

1. Powerful NOD-O-GEN national advertising to farmers is making the whole farm population NOD-O-GEN conscious.
2. Ingenious sales methods tie in all the NOD-O-GEN advertising to YOU as a source of supply.
3. Attractive margins give the seedsman a real break. (Nod-O-Gen pioneered and continues to lead in reasonable prices).
4. Steady, growing repeat business on NOD-O-GEN is a constant and long-time profit puller for any seedsman.

Get on the band wagon—watch your inoculator profits go skyhigh—on a good old standby that never rests on its laurels—but keeps always ahead of the parade—because of a systematic program of improvement.

We will gladly place full details before you by mail or direct representative.

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CHICAGO ILLINOIS

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THE PRE-TESTED INOCULATOR

Rex — seed oats—Archer-Daniels-Midland Co., Minneapolis, Minn.
Rice's Seed—Jerome B. Rice Seed Co., Cambridge, N. Y.
Rose Brand—field seeds—Crawfordsville Seed Co., Crawfordsville, Ind.
Royal Quality — field and grass seeds — Rudy-Patrick Seed Co., Kansas City, Mo.
Sadd's—field seeds—Harold Sadd's Seeds, Ltd., Ipswich, England.
Sam—field seeds—Sedgwick Alfalfa Mills, Sedgwick, Kansas.
Santa Barbara—seed beans—McCrea Seed Co., Inc., Santa Barbara, Calif.
Sator—field seeds—Sator Seeds & Agri. Wholesale Products Co., Ltd., Budapest, Hungary.
Schell's Quality—garden seeds—Walter S. Schell, Inc., Harrisburg, Pa.
Scott's—lawn seed—O. M. Scott & Sons Co., Marysville, Ohio.
Sealed Color-Tru — tomato seed — Haven Seed Co., Santa Ana, Calif.
Seal-Kraft—rose bushes—C. E. Wilson & Co., Inc., Manchester, Conn.
Seccombe's—paspalum seed — T. C. Seccombe, Coff's Harbour, N.S.W., Australia.
Security—field seeds—Cargill, Inc., Minneapolis, Minn.
Seeds That Grow—W. Atlee Burpee Co., Philadelphia, Pa.
Shady Spot—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y.
Sickle—seed—I. L. Radwaner Seed Co., New York, N. Y.
Sioux — field, garden and flower seeds — Michael-Leonard Seed Co., Sioux City, Iowa.
Six Green Stripes — blue grass seed—Nebraska Seed Co., Omaha, Nebr.
Slusia—flower and vegetable seeds—Abraham Sluis, Ltd., Enkhuizen, Holland.
Soo-Bred—bantam sweet corn—Michael-Leonard Seed Co., Sioux City, Iowa.
Stork—field seeds—Cargill, Inc., Minneapolis, Minn.
Suhr's Seed Sure Success—garden seeds—The Suhr Co., New York, N. Y.
Sunnybrook—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
Sunshine—field seeds—Dakota Improved Seed Co., Mitchell, S. D.
Super — Regame — cauliflower seed — A. Hansen, Kastrup, Denmark.
Superior—lawn grass mixture — Duryea Seed Co., Inc., New York, N. Y.
Supreme—seed grain, corn and grass seeds —Goldberg Seed & Feed Co., Fargo, N. D.
Sterling Brand — farm seeds — Northrup, King & Co., Minneapolis, Minn.
Sure Crop Farm Seeds—seed corn—Reist Seed Co., Lancaster, Pa.
Tanaka's Tested Seeds—flower and garden seeds—J. Tanaka & Co., Osaka, Japan.
Terra—field and grass seeds — "Terra" Seed Co., Szembathely, Hungary.
Tiger—red clover seed—Steele, Briggs Seed Co., Toronto, Ont., Canada.
Truval—field seeds—Purcell Seed Co., Evansville, Ind.
Turfmaker — lawn seed mixture — F. H. Woodruff & Sons, Milford, Conn.
Utryit—seeds—Nebraska Seed Co., Omaha, Nebr.
Ver-E-Best — seeds — Market Gardeners' Seed Co., Cincinnati, Ohio.
Village Green—lawn grass mixtures—Duryea Seed Co., Inc., New York, N. Y.
Wab—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
Wolf—red clover seed — Steele, Briggs Seed Co., Toronto, Ont., Canada.
Woodco—lawn seed mixture and grass seed—F. H. Woodruff & Sons, Milford, Conn.
Wood's—field, garden and flower seeds—T. W. Wood & Sons, Richmond, Va.
Yellows Resistant — cabbage seed —Wisconsin Cabbage Seed Co., Lansing, Ill.
Ye Olde Copenhagen Market — a Copenhagen market cabbage seed — Hjalmar Hartmann & Co., Copenhagen, Denmark.
Yorkshire Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.
Zwaan's Snowdrift—cauliflower seed — Zwaan & Van der Molen, Voorburg (The Hague) Holland.

ALLIED LINES

AAZ Special—zinc oxide seed treatment—Rohm & Haas Co., Philadelphia, Pa.
Ace—aquarium heaters — Zenith Novelty Co., New York, N. Y.
Actirote—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
A & D—Peat moss stable bedding—Atkins & Durbrow, Inc., New York, N. Y.
Aeroil—weed burners, soil sterilizers, poultry disinfectants — Aeroil Burner Co., West New York, N. J.
Agate—seed scale—Henry Troemner, Philadelphia, Pa.
Agri-Pax — insecticide — Morris B. Reade, Inc., Belleville, N. J.
Agrogen—seed stimulant—Rose Mfg. Co., Philadelphia, Pa.
American Beauty — dusters — Los Angeles Chem. Co., Los Angeles, Cal.
Ames—cotton bags—Ames Bag Machine Co., Cleveland, Ohio.
Animal-Poultry Yeast Foam—feed supplement for dogs, cats, birds, poultry — Northwestern Yeast Co., Chicago, Ill.
Anco Brand Nicotinum—insecticide—Nicotine Mfg. Co., St. Louis, Mo.
Annia Germ—fumigant insecticide—Douglas Chem. & Supply Co., Kansas City, Mo.
Ansbacher Triangle—agricultural insecticides, fungicides and seed treatments — Ansbacher-Siegle Corp., Brooklyn, N. Y.
Ansico—self emulsifying oil spray — Ansbacher-Siegle Corp., Brooklyn, N. Y.

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FAMOUS *for* QUALITY



LŌMA Offers New Features • Bigger Profits

For ten years Lōma has been recognized by professional and amateur gardeners as the **Quality Leader** in plant foods. Thousands of commercial growers who use Lōma in greenhouses and on outdoor crops do so for one reason—MORE PROFITS.



Whether for professional use or in the home garden, Lōma produces bigger yields—healthier, prettier and longer-living blooms—**more luxuriant lawns.**

Gardeners who Know formulas Choose Lōma

LŌMA SALES PROMOTION

NATIONAL ADVERTISING. Lōma is backed by national advertising in both magazines and local newspapers.

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DISPLAY RACKS. Lōma now offers to customers featuring Lōma a new **Sales-Producing Display Rack.**

MATS AND ELECTROS. For your local advertising there is available free a wide selection of mats and electros. Write for new broadside. Tie-in with Lōma's national advertising.

LŌMA SPREADERS. Lōma spreaders are strongly made and fool-proof. Profitable to sell. Will increase your sales of Lōma. Five sizes—14" to 36".

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Special Announcement

Jobbing Discounts are available in many localities. These discounts greatly increase your profit opportunities. Inquiries invited. Write for full information.

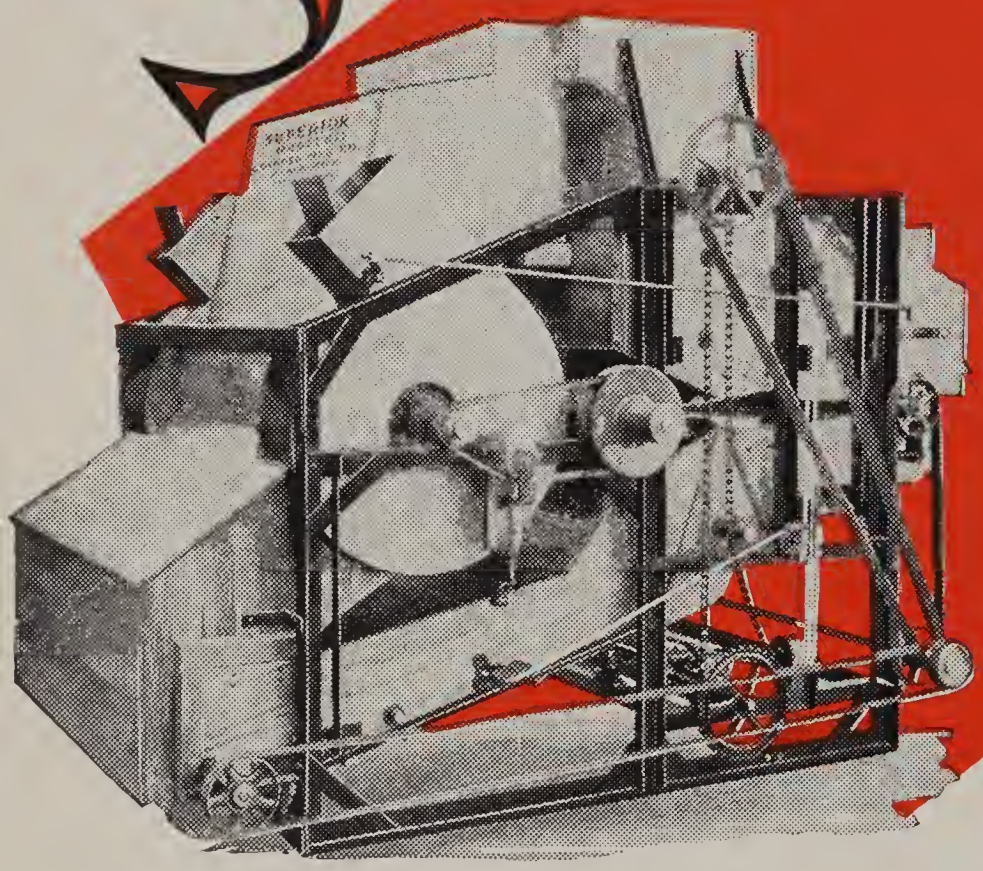
TENNESSEE CORPORATION 61 BROADWAY **New York, N. Y.**



Improved SUPERIOR

TRADE MARK REGISTERED

CLEANING SEPARATING POLISHING & GRADING MACHINES



NOT AGE, but recent improvements make your cleaning and grading equipment obsolete.

Today's keen competition makes it imperative that you post yourself on the very latest developments in equipment. A long list of owners (many of whom have given repeat orders for from 2 to 8 additional machines) attest to the efficiency and superiority of SUPERIOR Cleaners.

The improved features in SUPERIOR Cleaners are protected by patents allowed and pending.

Simplified operations. Guaranteed higher efficiency and greater profits.

Write for Illustrated Catalog

The CRIPPEN MFG. CO.

ALMA MICHIGAN

Ant Gas—ant and mole exterminator — Hammond Paint & Chemical Co., Beacon, N. Y.
Antube—ant exterminator—Buckeye Chem. & Specialty Co., New York, N. Y.
Ant-Zix—liquid ant killer—Bonide Chem. Co., Inc., Utica, N. Y.
Aphis Punk—greenhouse fumigation—Nicotine Mfg. Co., St. Louis, Mo.
Aristocrat—seed bags — Miller, Tompkins & Co., East Rutherford, N. J.
Arlington—hand lawn mowers — Clipper Mfg. Co., Dixon, Ill.
Astogen—insecticide—Rose Mfg. Co., Philadelphia, Pa.
Auxilin—miracle root grower — Penn. Chem. Corp., Orange, N. J.
Awinc — pyrethrum spray — Andrew Wilson, Inc., Springfield, N. J.
Bagez—udder ointment—Bonide Chemical Co., Inc., Utica, N. Y.
Banner—root cutters—O. E. Thompson & Sons, Ypsilanti, Mich.
Bartlett—pruning tools and tree paint—Bartlett Mfg. Co., Detroit, Mich.
B-B—farm and garden specialties—Ball-Biddle Co., Riverton, N. J.
B-B Dust — bean beetle dust — Hammond Paint & Chem. Co., Inc., Beacon, N. Y.
Bemis-A—cotton seamless bags — Bemis Bro. Bag Co., St. Louis, Mo.
Bemis Special—threads—Bemis Bro. Bag Co., St. Louis, Mo.
Big Fluffy Chicks That Live and Grow—Sunshine Hatcheries, Corydon, Ind.
Bighead — sprayers — Dobbins Mfg. Co., North St. Paul, Minn.
Biotol—sardine oil—Atkins & Durbrow, Inc., New York, N. Y.
Bird Neponset — flower pots, covers and earth bands — Bird & Son, Inc., East Walpole, Mass.
Black Leaf 40—insecticide, poultry lice killer, worm remedy and dog repellent—Tobacco By-Products & Chemical Corp., Louisville, Ky.
Blue Beauty—duster—Los Angeles Chem. Co., Los Angeles, Cal.
Blue Death—rat killer—Bonide Chemical Co., Inc., Utica, N. Y.
Blue Ribbon—poultry supplies —Anderson Box Co., Indianapolis, Ind.
Bonide—crow repellents, stock spray, rat and mice exterminator, dog repellent, dog remedies, fly, pet and mosquito repellents, ant exterminator, stock remedies, insecticides, wood preservative and mite killer, poultry remedies, lice killer, fungicide, poultry disinfectant—Bonide Chem. Co., Inc., Utica, N. Y.
Bonide Rotenone .75—insect dust—Bonide Chem. Co., Inc., Utica, N. Y.
Bonrote—shade tree and ornamental shrub spray—Bonide Chem., Co., Inc., Utica, N. Y.
Bor-tox—boring insect control —Andrew Wilson, Inc., Springfield, N. J.
Botano Dust—rotenone dust—California Spray—Chem. Corp., Richmond, Cal.
Brownie—seed bags—Miller, Tompkins & Co., East Rutherford, N. J.
Buckeye Antube—ant exterminator—Buckeye Chem. & Spec. Co., New York, N. Y.
Buhler — patented vibrationless sieve drives—S. Howes Co., Silver Creek, N. Y.
Bull Dog—seed bags—Miller, Tompkins & Co., East Rutherford, N. J.
Burnett's—bird and fish foods and remedies—Burnett's Inc., Newark, N. J.
C-A—chicken mite killer—C-A Wood Preserver Co., St. Louis, Mo.
California Beauty — duster — Los Angeles Chem. Co., Los Angeles, Cal.
Calispray—dusters, sprayers, insecticides, fungicides—Los Angeles Chemical Co., Los Angeles, Cal.
Caltox—insecticide — California Spray - Chemical Corp., Richmond, Cal.
Cap Brush—roost applicator for delousing poultry—Tobacco By-Products & Chem. Corp., Louisville, Ky.
Capital Brand—feeds—Capital Fuel, Feed & Seed Co., Phoenix, Ariz.
Carter—disc separators—Hart-Carter Co., Minneapolis, Minn.
Carus Manganese Sulfate—fertilizer, plant food—Carus Chem. Co., La Salle, Ill.
Cascade—vertical seed mixers—S. Howes Co., Silver Creek, N. Y.
Cattle Comfort — stock spray — Hammond Paint & Chemical Co., Beacon, N. Y.
Cellophane—seed enclosures—I. L. Radwaner Seed Co., New York, N. Y.
Century—hand lawn mowers — Clipper Mfg. Co., Dixon, Ill.
Ceresan—New Improved—wheat, oats and barley seed treatment — Bayer-Semesan Co., Wilmington, Del.
Certified Premier—Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
CFG—wholesale growers of cut flowers—Chicago Flower Growers, Inc., Chicago, Ill.
Champion—peanut pickers—Ellis Keystone Agri. Works, Pottstown, Pa.
Champion—weighing and filling machines —S. Howes Co., Silver Creek, N. Y.
Cid—insecticide and fungicide—Rose Mfg. Co., Philadelphia, Pa.
Cincinnati "A"—cotton seamless bags—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
Clipper—grain, seed and bean cleaners—A. T. Ferrell & Co., Saginaw, Mich.
Clipper—hand, horse and power lawn mowers—Clipper Mfg. Co., Dixon, Ill.
Clute—air-lift elevators and fruit graders —Oliver Mfg. Co., St. Louis, Mo.
Collie—seed bags—Miller, Tompkins & Co., East Rutherford, N. J.
Colonial—baby chicks — Colonial Poultry Farms, Pleasant Hill, Mo.
Combination—fertilizer spreader and seeder—Cyclone Seeder Co., Urbana, Ind.

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Compound Lever—tree trimmer — Barlett Mfg. Co., Detroit, Mich.
Coposil—fungicide — California Spray-Chemical Corp., Richmond, Cal.
Copper Solution — fungicide — Hammond Paint & Chem. Co., Inc., Beacon, N. Y.
Covrol—clarified fish oil spreader — Ansbacher-Siegle Corp., Brooklyn, N. Y.
Coxone—poultry house disinfectant—Bonide Chem. Co., Inc., Utica, N. Y.
Cro-tox—bird repellent — Bonide Chem. Co., Inc., Utica, N. Y.
Crowfex—crow repellent—Bonide Chemical Co., Inc., Utica, N. Y.
Cupro-K—copper oxcychloride fungicide —Rohm & Haas Co., Philadelphia, Pa.
Cuprocide—red copper oxide seed treatment—Rohm & Haas Co., Philadelphia, Pa.
Cyclone—poultry supplies—Cyclone Mfg. Co., Urbana, Ind.
Dadant—bee supplies, hives, books—Dadant & Sons., Hamilton, Ill.
Deadline—insect barrier for tree banding —California Spray-Chem. Corp., Richmond, Cal.
Delamare—garden books—A. T. DeLaMare Co., Inc., New York, N. Y.
Detecto-Gram—scales — Jacobs Bros. Co., Brooklyn, N. Y.
Devil Dust—insecticide—Ridge Tool Co., Elyria, Ohio.
Dickinson's—dog food—Albert Dickinson Co., Chicago, Ill.
Disbrow Seal Brand—seed packets and bags—Disbrow Mfg. Co., Newark, N. J.
Dixon—hand lawn mowers—Clipper Mfg. Co., Dixon, Ill.
Dog Skat — tree and shrub protector — Hammond Paint & Chem. Co., Beacon, N. Y.
Dog Zix—dog repellent—Bonide Chemical Co., Inc., Utica, N. Y.
Dogeaz—dog, pet, fly and mosquito repellent—Bonide Chem. Co., Inc., Utica, N. Y.
Dogzoff—dog repellent — Bohlender Plant Chemicals, Inc., Tippecanoe City, Ohio.
Dogzop—liquid shampoo and flea killer —Bonide Chem. Co., Inc., Utica, N. Y.
Dormo Pax—insecticide—Morris B. Reade, Inc., Belleville, N. J.
Du Bay 738—soil disinfectant for bottom rot of lettuce—Bayer-Semesan Co., Wilmington, Del.
Dumore—electric hedge trimmer—Dumore Co., Racine, Wis.
Duthrip — dry insecticide for gladiolus bulbs—Morris B. Reade, Inc., Belleville, N. J.
Eclipse—power and hand lawn mowers— Eclipse Mfg. Co., Prophetstown, Ill.
Eclipse Santread—hand lawn mowers — Eclipse Mfg. Co., Prophetstown, Ill.
Ellis Champion — grain threshers — Ellis-Keystone Agri. Works, Pottstown, Pa.
Eureka — seed cleaners, separators and graders, lawn seed mixers, scarifiers and other seed processing machinery — S. Howes Co., Silver Creek, N. Y.
Everlastic—glazing bedding putty—Hammond Paint & Chemical Co., Beacon, N. Y.
Exact Weight—scales—Exact Weight Scale Co., Columbus, Ohio.
Exadol—cod liver oil—Atkins & Durbrow, Inc., New York, N. Y.
Expert Line—grain and seed cleaners, corn sorters, hullers, scarifiers, fanning mills— Cleland Mfg. Co., Minneapolis, Minn.
Extend-o-shelf—shelf for potted plants— Andrew B. Hendryx Co., New Haven, Conn.
E-Z-Kill—rotenone louse powder—Bonide Chem. Co., Inc., Utica, N. Y.
E-Z-Way — plant markers — Mit-Shel Stamping Mfg. Co., Quincy, Ill.
Farmer's Favorite—poultry supplies—Chas. M. Biddle Co., Riverton, N. J.
Felins—vegetable tying machines and washers — Felins Tying Machine Co., Milwaukee, Wis.
Ferogen—ground dressing—Rose Mfg. Co., Philadelphia, Pa.
Fertile—transplanting pots—Fertile Products, Inc., Bridgeport, Conn.
F J F—feeds and fertilizer—Farley Feed Co., Bellingham, Wash.
Flotox—sulphur for dusting or liquid spraying — California Spray-Chemical Corp., Richmond, Cal.
Fly-Away — spray — Hammond Paint & Chemical Co., Beacon, N. Y.
Flyzoff — fly repellent — Bohlender Plant Chemicals, Inc., Tippecanoe City, Ohio.
For-Get-Me-Not—natural and colored raffia and peat moss—Julius Loewith, Inc., New York, N. Y.
Formacide—fungicide — Hammond Paint & Chem. Co., Beacon, N. Y.
Form-o-Fume—formaldehyde dust—Rohm & Haas Co., Philadelphia, Pa.
Four-In-One — percentage scale — Seed Trade Reporting Bureau, Chicago, Ill.
Fulton "A"—cotton seamless bags—Fulton Bag & Burlap Co., Atlanta, Ga.
Fulton's A-1 — insect spray — Plantabbs Corp., Baltimore, Md.
Fumigato—fumigant — Douglas Chemical & Supply Co., Kansas City, Mo.
Fung-O—liquid fungicide — Andrew Wilson, Inc., Springfield, N. J.
Fun-L-Fill—sprayers—Dobbins Mfg. Co., North St. Paul, Minn.
Galloway—seed packets — Schmidt Litho. Co., San Francisco, Calif.
Garden Volck—insecticide — California Spray-Chem. Corp., Richmond, Cal.
Germaco—hotkaps—Germain Seed & Plant Co., Los Angeles, Calif.
Giant—bean pickers—A. T. Ferrell & Co., Saginaw, Mich.
Globe—feeds and bird seed—Albert Dickinson Co., Chicago, Ill.

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Gold Leaf—tobacco powder—Tobacco By-Products & Chemical Corp., Louisville, Ky.
Goldena—feeds—Goldberg Seed & Feed Co., Fargo, N. Dak.
Gopher Death — rodent exterminator — Fort Dodge Chemical Co., Ft. Dodge, Iowa.
GPM—granulated peat moss — Atkins & Durbrow, Inc., New York, N. Y.
Grape and Rose Dust—fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
Greenhouse Volck—insecticide—California Spray Chem. Corp., Richmond, Cal.
Greentox—non poisonous plant spray — Bonide Chemical Co., Inc., Utica, N. Y.
Grip-Lock—bag seal—E. J. Brooks Co., Newark, N. J.
Gro-zum—sphagnum peat moss — Minnesota Horticultural Peat & Litter Co., Minneapolis, Minn.
Grub-O—lawn grub proofing compound—Andrew Wilson, Inc., Springfield, N. J.
Hammond Weed Killer—Hammond Paint & Chem. Co., Beacon, N. Y.
Hammond's—insecticides, fungicides, paints and putties—Hammond Paint & Chemical Co., Beacon, N. Y.
Handy—flower holder — M & K Metal Works, Ltd., Portland, Ore.
Heco—envelopes—Heco Envelope Co., Chicago, Ill.
Hendryx—bird cages—Andrew B. Hendryx Co., New Haven, Conn.
Henry Troemner — weighing apparatus — Henry Troemner, Philadelphia, Pa.
Henure—fertilizer — Atkins & Durbrow, Inc., New York, N. Y.
Herbst—bag cleaners—S. Howes Co., Silver Creek, N. Y.
Hexpo—insecticide and fungicide—Bonide Chem. Co., Inc., Utica, N. Y.
Hi-Lo-Fosfate—for available phosphates—Urbana Laboratories, Urbana, Ill.
Hoeller—flat bag filling and closing machine—H. C. Baum, New York, N. Y.
Hoffer Test—for nitrogen and potash—Urbana Laboratories, Urbana, Ill.
Horicum Lime—sulphur concentrate and fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
Hormodin "A"—root forming chemical — Merck & Co., Inc., Rahway, N. J.
Hortogen—plant stimulant—Rose Mfg. Co., Philadelphia, Pa.
Hotkaps—plant protectors—Germain Seed & Plant Co., Los Angeles, Calif.
Howes — equipment for seed houses — S. Howes Co., Silver Creek, N. Y.
Hudson—sprayers—H. D. Hudson Mfg. Co., Chicago, Ill.
Hudson Kleen-EZY—poultry equipment—H. D. Hudson Mfg. Co., Chicago, Ill.
H. W. K.—weed killer—Hammond Paint & Chemical Co., Beacon, N. Y.
Hydro-Air—power sprayer—Andrew Wilson, Inc., Springfield, N. J.
Hydroxcide—insecticide—Mechling Bros. Chemicals, Div. of General Chemical Co., Camden, N. J.
Imperial—lawn edger — Imperial Bit & Snap Co., Racine, Wis.
Insectrogen — insecticide — Rose Mfg. Co., Philadelphia, Pa.
Interstate—feeds—Interstate Seed & Grain Co., Fargo, N. Dak.
Invincible—bean polishers and bean cleaning and grading equipment—S. Howes Co., Silver Creek, N. Y.
Iron Age — garden tools — Ellis Keystone Agricultural Works, Pottstown, Pa.
Japtox—Japanese bean beetle destroyer—Mechling Bros. Chemicals, Div. of General Chem. Co., Camden, N. J.
Kerosene Emulsion — insecticide — Hammond Paint & Chemical Co., Beacon, N. Y.
Keystone—circular wood saws and fodder cutters—Ellis Keystone Agricultural Works, Pottstown, Pa.
Killogen—contact spray—Rose Mfg. Co., Philadelphia, Pa.
Kilrust—insecticide — Morris B. Reade, Inc., Belleville, N. J.
Kleenup Emulsion—oil spray for dormant use—California Spray-Chemical Corp., Richmond, Cal.
Knickerbocker "Made Right"—sample display cases — Knickerbocker Case Co., Chicago, Ill.
K-R-O—rat exterminator—K-R-O Company, Springfield, Ohio.
Kubatox—liquid contact insecticide—Ansbacher-Siegle Corp., Brooklyn, N. Y.
Lac-Hi-Potash—for replaceable potassium—Urbana Laboratories, Urbana, Ill.
Lady—hand lawn mower—Eclipse Lawn Mower Co., Prophetstown, Ill.
Lawnette—seeder and fertilizer spreader—O. E. Thompson & Sons, Ypsilanti, Mich.
Le Gear's—stock, poultry and dog remedies—Dr. L. D. Le Gear Medicine Co., St. Louis, Mo.
Leonard—horticulture knives, nursery spades, arboricultural supplies — A. M. Leonard & Son, Piqua, Ohio.
Lethane 440 — insecticide — Rohm & Haas Co., Philadelphia, Pa.
Lethane Spreader—wetting and spreading agent—Rohm & Haas Co., Philadelphia, Pa.
Life-O-Plant—plant food—Bohlender Plant Chemicals, Inc., Tippecanoe City, Ohio.
Lilly's—fertilizers and dairy feeds—Chas. H. Lilly Co., Seattle, Wash.
Liquid Slug Shot—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
Little Beauty—dusters — Los Angeles Chem. Co., Los Angeles, Cal.
Little Giant—sprayers—Los Angeles Chem. Co., Los Angeles, Cal.
Little Wonder — hedge trimmer — Detco Mfg. Co., Oaks, Pa.
Liv-An-Gro—brooders—Anderson Box Co., Indianapolis, Ind.

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Lyric—mixed bird seed—Philadelphia Seed Co., Philadelphia, Pa.
Mainstay—cotton twine for closing bags by hand sewing—Bemis Bro. Bag Co., St. Louis, Mo.
Masters—plant setter—Masters Planter Co., Chicago, Ill.
Masters Perfect—fertilizer distributor and seeder—Masters Planter Co., Chicago, Ill.
Mechling's Scale Oil—insecticide—Mechling Bros. Chemicals, Div. of Gen. Chem. Co., Camden, N. J.
Merck—animal dips, disinfectants, fumigants, animal insecticides, lice killers, seed disinfectants, fungicide, pest exterminators-Merck & Co., Inc., Rahway, N. J.
Messinger—dusters, corn shellers, threshers—Messinger Mfg. Co., Tatamy, Pa.
Metro—greenhouses—Metropolitan Greenhouse Mfg. Corp., Brooklyn, N. Y.
Metrox Cuprous Oxide—damping off control—Metals Refining Co., Div. of Glidden Co., Hammond, Ind.
Mexogen—mole exterminator—Rose Mfg. Co., Philadelphia, Pa.
Midwest—hand lawn mower — Eclipse Lawn Mower Co., Prophetstown, Ill.
Miller—metal label making machine—Miller Engineering Machine Co., Inc., Newark, N. J.
Miller's—dog food—Battle Creek Dog Food Co., Battle Creek, Mich.
Milorganite—fertilizer—Sewerage Commission, Milwaukee, Wis.
Mit-Shel—poultry supplies — Mit-Shel Stamping Mfg. Co., Quincy, Ill.
Mix—bean sorters—S. Howes Co., Silver Creek, N. Y.
Mole Death—mole exterminator — Fort Dodge Chemical Co., Fort Dodge, Iowa.
Mologen—mole exterminator — Rose Mfg. Co.. Philadelphia, Pa.
Monmouth—pottery — Western Stoneware Co., Monmouth, Ill.
Morecorn—seed corn sorters and graders—Universal Hoist & Mfg. Co., Cedar Falls, Iowa.
Mosquitozoff—mosquito exterminator—Bohlender Plant Chemicals, Inc., Tippecanoe City, Ohio.
Mott—huller and scarifier with "Fairdeal" variable speed control—Hogmoe Mfg. Co., Minneapolis, Minn.
Mt. Beacon — green shading — Hammond Paint & Chemical Co., Beacon, N. Y.
Naptoside—insecticide—Hammond Paint & Chem. Co., Inc., Beacon, N. Y.
National—poultry leg and wing bands. plant and tree labels—National Band & Tag Co., Newport, Ky.
National—vegetable preserving wax—National Wax Co., Chicago, Ill.
Need Envelopes? Phone Heco!—Heco Envelope Co., Chicago, Ill.
Neponset—flower pots, flower pot covers and earth bands—Bird & Son, Inc., East Walpole, Mass.
Neva-Fale—plant spray—Morris B. Reade, Inc., Belleville, N. J.
New Day — feeds — Newday Seeds, Inc., Fargo, N. Dak.
Nico-Fume—liquid, paper and powder insecticide — Tobacco By-Products & Chemical Corp., Louisville, Ky.
Nicotinum—insecticide—Nicotine Mfg. Co., St. Louis, Mo.
Nicotox—delousing liquid—Bonide Chem. Co., Inc., Utica, N. Y.
Nicotrol—aphicide—Kay-Fries Chemicals, Inc., New York, N. Y.
Nicotine Soap—insecticide — Hammond Paint & Chemical Co., Beacon, N. Y.
Nikoteen — liquid, powder aphis punk — Nicotine Mfg. Co., St. Louis, Mo.
Nitragin—soil and legume inoculator—The Nitragin Co., Inc., Milwaukee, Wis.
No Crow—crow repellent—Hammond Paint & Chem. Co., Beacon, N. Y.
Nod-O-Gen—inoculant—Albert Dickinson Co., Chicago, Ill.
No. 99 Aeroil Burner—weed burner—Aeroil Burner Co., West New York, N. J.
Nu Green—fungicide for brown patch of grasses control — Bayer-Semesan Co., Wilmington, Del.
Nursery Volck—insecticide — California Spray-Chem. Corp., Richmond, Va.
O. K.—plant spray—Andrew Wilson, Inc., Springfield, N. J.
O.K.—poultry litter—Atkins & Durbrow, Inc., New York, N. Y.
Old English—liquid putty — Hammond Paint & Chemical Co., Beacon, N. Y.
Old English—sheep manure—Philadelphia Seed Co., Philadelphia, Pa.
Old English—turf builder and plant food —Philadelphia Seed Co., Philadelphia, Pa.
Old English Lawn Klenser — Japanese beetle exterminator—Philadelphia Seed Co., Philadelphia, Pa.
Olds—bean grader and separator—Pioneer Thresher Co., Shortsville, N. Y.
Oliver—gravity separators and portable electric blowers — Oliver Mfg. Co., St. Louis, Mo.
"One Drop"—ant killer—Buckeye Chem. & Specialty Co., New York, N. Y.
Original—greenhouse white paint—Hammond Paint & Chem. Co., Beacon, N. Y.
Ortho—Insecticide, mildew spray, rodent destroyer — California Spray-Chemical Corp., Richmond, Cal.
Oval Bowl—plant markers — Mit-Shel Stamping Mfg. Co., Quincy, Ill.
Ovene—sheep manure in pellet and stick form—Stockdale Fertilizer Co., Morris, Ill.
Oxford—bean polishers—A. T. Ferrell & Co., Saginaw, Mich.
Oxo Bordeaux—colloidal copper fungicide — Ansbacher-Siegle Corp., Brooklyn, N. Y.

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Pax Brand—dairy and poultry feeds -- Kelly-Western Co., Salt Lake City, Utah.
Peerless—dust guns, sprayers—Peerless Dust Gun Co., Cleveland, Ohio.
Peerless — gunning asbestos asphaltum — Hammond Paint & Chemical Co., Beacon, N. Y.
Penatrol—spreader nicotine, lead arsenate —Kay Fries Chemicals, Inc., New York, N. Y.
Perfection—garden and agricultural irrigation sprinklers—Perfection Sprinkler Co., Plymouth, Mich.
Perma-Mark—leg bands—National Band & Tag Co., Newport, Ky.
Pest-Kit—kit containing material to combat insects and diseases—Hammond Paint & Chemical Co., Beacon, N. Y.
Pik Nix—poultry ointment—Bonide Chemical Co., Inc., Utica, N. Y.
Pinaveras—disinfectant—Morris B. Reade, Inc., Belleville, N. J.
Plantabbs — plant food and fertilizer — Plantabbs Corp., Baltimore, Md.
Premier—Swedish Northland Peat Moss—Premier Peat Moss Corp., New York, N. Y.
Protecto-Seal—seals — Protecto-Seal Co., Orchard Park, N. Y.
P.T.C.—potato diggers—Pioneer Thresher Co., Shortsville, N. Y.
Pulvo-Pax—pyrethrum insecticide—Morris B. Reade, Inc., Belleville, N. J.
Purgrain—pigeon, poultry and rabbit feeds and pigeon health grit — Philadelphia Seed Co., Philadelphia, Pa.
Pyresul Dust—combination sulphur fungicide and pyrethrum insecticide—Morris B. Reade, Inc., Belleville, N. J.
Pyrote—non-poisonous double acting insecticide—Mechling Bros. Chemicals, Div. Gen. Chem. Co., Camden, N. J.
QB Dust No. 1—rotenone dusting insecticide—Bonide Chem. Co., Inc., Utica, N. Y.
QB Dust No. 2—dust insecticide—Bonide Chem. Co., Inc., Utica, N. J.
QB Dust No. 3—dusting insecticide with fumigant — Bonide Chem. Co., Inc., Utica, N. Y.
Quix—livestock louse powder — Bonide Chemical Co., Inc., Utica, N. Y.
Racine—fanning mill type seed cleaners—S. Howes Co., Silver Creek, N. Y.
Rat-Scent—rat exterminator—C. G. Woods Chem. Co., Inc., Glendale, Cal.
Rat's Last Will—rat exterminator—J. W. Ridge Products Co., Arcadia, Ind.
Red Ring Brand Nikoteen-Aphis Punk—nicotine paper fumigant—Nicotine Mfg. Co., St. Louis, Mo.
Red Ring Brand Nikoteen Powder—Nicotine Mfg. Co., St. Louis, Mo.
Red Star Brand—raffia—McHutchison & Co., New York, N. Y.
Rhody-Life—Andrew Wilson, Inc., Springfield, N. J.
Rich-or-Poor — for soil acidity — Urbana Laboratories, Urbana, Ill.
Ridge's—red squill rat exterminator—J. W. Ridge Products Co., Arcadia, Ind.
Rid-O-Rat—non poisonous liquid rat exterminator — Andrew Wilson, Inc., Springfield, N. J.
Rio Grande—hand lawn mower—Eclipse Lawn Mower Co., Prophetstown, Ill.
Rodee—rotenone dust — Bonide Chemical Co., Inc., Utica, N. Y.
Rodopell—bulb protector against moles, rats, mice, etc.—Atkins & Durbrow, Inc., New York, N. Y.
Rose Dust—fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
Rotenone Dust—insecticide — Hammond Paint & Chem. Co., Beacon, N. Y.
Rotenone "75" — insecticide — Mechling Bros. Chemicals, Div. of Gen. Chem. Co., Camden, N. J.
Rotofume—liquid Rotenone insecticide—Andrew Wilson, Inc., Springfield, N. J.
Roton—fly spray—Bonide Chemical Co., Inc., Utica, N. Y.
Roto-Spra — insecticide — Andrew Wilson, Inc., Springfield, N. J.
Rotre—fruit tree and bush fruit spray—Bonide Chemical Co., Utica, N. Y.
Safety-Seal—leg bands—National Band & Tag Co., Newport, Ky.
Sanaseed — mice exterminator — Bonide Chemical Co., Inc., Utica, N. Y.
Scale-O—dormant spray—Andrew Wilson, Inc., Springfield, N. J.
Seal Brand—seed packets and bags—Disbrow Mfg. Co., Newark, N. J.
Seedburo Quality—grain, seed and flour grading equipment—Seed Trade Reporting Bureau, Chicago, Ill.
Seidorin—soil disinfectant—Japan Seed Co., San Francisco, Cal.
Semesan—seed treatment for seeds, bulbs and brown patch of grasses, also for damping off of seedlings—Bayer-Semesan Co., Wilmington, Del.
Semesan Bell-New Improved—instantaneous dip for seed white and sweet potatoes — Bayer-Semesan Co., Wilmington, Del.
Semesan, Jr.—New Improved—field and sweet corn seed treatment—Bayer-Semesan Co., Wilmington, Del.
S & H—set onion planter—S & H Set Onion Planter Co., Pleasant Valley, Iowa.
Shadowgraph—scale—Exact Weight Scale Co., Columbus, Ohio.
Sheep's Head Brand—sheep and cattle manure—Natural Guano Co., Aurora, Ill.
Sho-Gro—seed germinators — Seed Trade Reporting Bureau, Chicago, Ill.
Slug Shot Dust—insecticide and fungicide —Hammond Paint & Chemical Co., Inc., Beacon, N. Y.
Slug Shot — insecticide and fungicide — Hammond Paint & Chemical Co., Beacon, N. Y.
Soil-O-Gas—soil fumigant—Andrew Wilson, Inc., Springfield, N. J.

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Sol-Hot Radiant—brooder—H. M. Sheer Co., Quincy, Ill.
Sorbex—moss peat—Atkins & Durbrow, Inc., New York, N. Y.
Specific—gravity separators, cleaners and graders—Sutton, Steele & Steele, Inc., Dallas, Texas.
Speedline—garden tools—Union Fork & Hoe Co., Columbus, Ohio.
Stabilized Rotenone Dust — insecticide — Hammond Paint & Chemical Co., Beacon, N. Y.
Stand-Bilt—jar fount—Cyclone Mfg. Co., Urbana, Ind.
Star—lawn seeder and fertilizer spreader —Pioneer Thresher Co., Shortsville, N. Y.
Sterling — feeds — Northrup, King & Co., Minneapolis, Minn.
Storm King—greenhouse white paint and white glazing compound—Hammond Paint & Chemical Co., Beacon, N. Y.
Sulcoloid—sulphur fungicide—Ansbacher-Siegle Corp., Brooklyn, N. Y.
Sulrote—dusting mixture, insecticide and fungicide—Mechling Bros. Chemicals, Div. of Gen. Chem. Co., Camden, N. J.
Sunshine—chicks — Sunshine Hatcheries, Corydon, Ind.
Superbilt—sprayers and dusters—Dobbins Mfg. Co., North St. Paul, Minn.
Superior—cleaners and graders — Crippen Mfg. Co., Alma, Mich.
Superior Scale Oil-spray—Mechling Bros. Chemicals, Div. of Gen. Chem. Co., Camden, N. J.
Super-Mist—sprayers—Los Angeles Chem. Co., Los Angeles, Cal.
Sure Shot—concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.
Tendust—nicotine dust—California Spray-Chemical Corp., Richmond, Cal.
Terogen—insecticide—Rose Mfg. Co., Philadelphia, Pa.
Tetrafume—rat exterminator — Douglas Chemical & Supply Co., Kansas City, Mo.
Thompson—fertilizer spreaders and seeders—O. E. Thompson & Sons, Ypsilanti, Mich.
Thrip Juice—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
Topzol—rat powder and rat baits—Bonide Chemical Co., Inc., Utica, N. Y.
Torrent—bunch vegetable washer—Felins Tying Machine Co., Milwaukee, Wis.
Torsion—scales—Torsion Balance Co., New York, N. Y.
Toxogen—insecticide—Rose Mfg. Co., Philadelphia, Pa.
Triad—insecticide — Hammond Paint & Chem. Co., Beacon, N. Y.
Triangle Brand—insecticides and fungicides—Ansbacher-Siegle Corp., Brooklyn, N. Y.
Triner—seed scales—Triner Sales Co., Chicago, Ill.
Triogen—insecticide, fungicide and plant stimulant—Rose Mfg. Co., Phil., Pa.
Triox—weed killer — California Spray-Chemical Corp., Richmond, Cal.
Tri-Tox-Cide — thrips dust insecticide — Andrew Wilson, Inc., Springfield, N. J.
Trix—female dog repellent—Bonide Chemical Co., Utica, N. Y.
True to Type — seed packets — Stecher-Traung Lithograph Corp., Rochester, N. Y.
2% Ceresan—disinfectant for cotton, narcissus and peas — Bayer-Semesan Co., Wilmington, Del.
Union—garden tools—Union Fork & Hoe Co., Columbus, Ohio.
Universal — combination huller, scarifier, cleaner and grader — American Grain Separator Co., Minneapolis, Minn.
Universal—crushed oyster shell for bird and fish food, colored chips for fish bowls — Universal Crushed Shell Co., Muscatine, Ia.
Universal—plant stakes and supports — Universal Wire & Iron Co., Inc., Milwaukee, Wis.
Urbana Culture—legume inoculator — Urbana Laboratories, Urbana, Ill.
Vacuum Cleaned Premier — Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
Van — self cleaning safety rake — Staff Mfg. Co., Chicago, Ill.
Visinet—bags for fruit and vegetables—Bemis Bro. Bag Co., St. Louis, Mo.
Volck—summer oil spray emulsion and insecticide — California Spray-Chemical Corp., Richmond, Cal.
Weed Killer—weed exterminator — Hammond Paint & Chem. Co., Beacon, N. Y.
Whale Oil Soap—insecticide — Hammond Paint & Chem. Co., Beacon, N. Y.
Wilson's—dusting sulphur, lawn fertilizer, liquid insecticide soap, summer fruit fungicide, weed killer, tree wound paint, worm eradicator dust, high pressure spray hose, tree food, superbilt fertilizer distributor, estate power sprayer, dust gun—Andrew Wilson, Inc., Springfield, N. J.
Wilton Ideal—garden label—Garden Label Co., Wilton, Conn.
Windobag — seed enclosure — I. L. Radwaner Seed Co., New York, N. Y.
Winner—grain cleaner — American Grain Separator Co., Minneapolis, Minn.
Wizard—sheep and cattle manure—Pulverized Manure Co., Chicago, Ill.
Woodco—lawn food — F. H. Woodruff & Sons, Milford, Conn.
XX Superior Brand—raffia—McHutchison & Co., New York, N. Y.
Zenco—dog, bird and pet supplies, dog remedies, canary items, chips and shells for bulbs and seeds—Zenith Novelty Co., New York, N. Y.
Zip—wing bands—National Band & Tag Co., Newport, Ky.
Zix—odorless and stainless stock spray—Bonide Chem. Co., Inc., Utica, N. Y.

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★ ★ ★ ★ DIRECTORY SECTION ★ ★ ★ ★

FOLLOWING ARE the names and addresses of seed growers and wholesalers of field, vegetable and flower seeds, classified alphabetically according to states. In cases where firms specialize in the handling of a certain item, this fact is indicated by the name of the commodity appearing in parenthesis after the firm's name.

Lists, classified according to kinds of seed, appear on pages 206-233.

Manufacturers of store and warehouse supplies and merchandise for re-sale purposes are listed on pages 234-334.

The publication of this book is made possible by the support and cooperation of the firms listed in bold face type. The advertisements of the firms appear on the pages indicated below their names.

WHOLESALE FIELD SEEDS

ALABAMA

Shreve & Son, J. W.
Andalusia, Ala.
Birmingham Seed Co.
Birmingham, Ala.
Lambert & Son, R. E.
Darlington, Ala.
Poyner Seed Co.
Dothan, Ala.
Wind & Co., I.
Huntsville, Ala.
Alabama Pecan Development Co., Inc. (Crotalaria)
Mobile, Ala.
(See Adv. on Page 193)
Van Antwerp Seed Co.
Mobile, Ala.
Capitol Grain & Feed Co.
Montgomery, Ala.

ARIZONA

Buckeye Seed & Feed Co.
Buckeye, Ariz.
Southwest Flour & Feed Co.
Glendale, Ariz.
Johnson-Pearce Co.
Mesa, Ariz.
Arizona Flour Mills
Phoenix, Ariz.
Capital Fuel, Feed & Seed Co.
Phoenix, Ariz.
(See Adv. on Page 29)
Farmers Seed & Feed Ass'n
Phoenix, Ariz.
(See Adv. on Page 219)
Liefgreen Seed Co.
Phoenix, Ariz.
Quick Seed & Feed Co.
Phoenix, Ariz.
Blalack Feed & Seed Co.
Yuma, Ariz.
Hayden Flour Mills
Tempe, Ariz.
Sanguinetti, E. F.
Yuma, Ariz.
(See Adv. on Page 215)
Whitman Seed Co.
Yuma, Ariz.
(See Adv. on Page 185)
Yuma County Farmers Marketing Association
Yuma, Ariz.
(See Adv. on Page 181)

ARKANSAS

Lee, Arthur G.
Fort Smith, Ark.
Bass-Isgrig Seed Co.
Little Rock, Ark.
Cochran Co., H. K.
Little Rock, Ark.
Whyte Feed Mills
Pine Bluff, Ark.
Hartz-Thorell Supply Co.
Stuttgart, Ark.

CALIFORNIA

Northrup, King & Co. (Bomberger Division)
Berkeley, Calif.
(See Adv. on Page 5)
Cuff-Archias Seed Co. (Sesbania and Melilotus Indica)
Brawley, Calif.
(See Adv. on Page 169)
Loomis, Jay
Hemet, Calif.
Aggeler & Musser Seed Co.
Los Angeles, Calif.
Germain Seed & Plant Co.
Los Angeles, Calif.
(See Adv. on Page 315)
Smith & Co., F. F.
Sacramento, Calif.
Ferry-Morse Seed Co.
San Francisco, Calif.
(See Adv. on Page 60)
Jones & Co., S. L.
San Francisco, Calif.
Sevin-Vincent Seed Co.
San Francisco, Calif.

Wholesale Distributor

FARM AND GRASS SEEDS

From producing to consuming territories



EXCLUSIVE SALES AGENT
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GUSTAV ZULZER, Hamburg, Germany.
Polish White Clover—Winter Vetches, Austrian Peas and other European grown seeds.

WRIGHT STEPHENSON & CO., LTD., Wellington, New Zealand.
Chewings Fescue and other fancy grasses.

STALLKNECHT & MEYER, Copenhagen, Denmark.
Danish grown grasses and root seeds.

FEKETE BROS., Budapest, Hungary.
Working closely with this good firm Hungarian Grown Clovers, field, and farm seeds.

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Correspondence invited from both Buyers and Sellers
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HAY, GRAIN, FERTILIZERS
PHOENIX, ARIZONA

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*ALFALFA — MELILOTUS INDICA — BUR CLOVER
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BERMUDA GRASS — GROHOMA — *D. D. MILO MAIZE
*REGISTERED BLUETAG SEALED

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GROWERS

CROTALARIA and WATER MELON SEED

2 year old field grown Rose Bushes

Serving the trade for 36 years. Let us know your requirements.

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WHOLESALE FIELD SEEDS—Continued

Volkmann & Co., C. M.
San Francisco, Calif.
Paramount Seed Co.
Stockton, Calif.
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CANADA

McKenzie Co., Ltd., A. E.
Brandon, Man., Canada.
Bruce & Co., Ltd., John A.
Hamilton, Ont., Canada.
Ewing, The Wm. Co., Ltd.
Montreal, Que., Canada.
Hogg & Lytle, Ltd.
Oakwood, Ont., Canada.
McDonald & Sons, Ltd., Kenneth
Ottawa, Ont., Canada.
Couse & Sons, William
Streetsville, Ont., Canada
Goodall, Ltd., James
Stouffville, Ont., Canada.
Canada Seed Co., Ltd., The
Toronto, Ont., Canada.
Keith & Sons, Geo.
Toronto, Ont., Canada.
McKenzie Co., Ltd., A. E.
Toronto, Ont., Canada
Rennie Seeds, Wm., Ltd.
Toronto, Ont., Canada.
Steele, Briggs Seed Co., Ltd.
Toronto, Ont., Canada
(See Adv. on Page 169)
United Farmers Co-operative Co., Ltd.
Toronto, Ont., Canada.
Watkins Seeds, Ltd.
Toronto, Ont., Canada

COLORADO

Barteldes Seed Co.
Denver, Colo.
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Rocky Mountain Seed Co.
Denver, Colo.
Western Seed Co.
Denver, Colo.
Grand Junction Seed Co.
Grand Junction, Colo.
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CONNECTICUT

Cadwell & Jones
Hartford, Conn.
Woodruff & Sons, F. H.
Milford, Conn.
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Platt Co., Inc., The Frank S.
New Haven, Conn.
Comstock, Ferre & Co.
Wethersfield, Conn.
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FLORIDA

Shreve Seed Co.
Chipley, Fla.
Simpson Nursery Co. (Crotalaria)
Monticello, Fla.
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Security Feed & Seed Co.
Tampa, Fla.

GEORGIA

Bush & Co., V. R.
Albany, Ga.
Athens Seed Co.
Athens, Ga.
Cofer & Co., H. L.
Athens, Ga.
Rowland Co., The
Athens, Ga.
Walton Seed Co. (Cowpeas and Soybeans)
Augusta, Ga.
Settle & Robison (Cowpeas)
Jackson, Ga.
Beechwood Seed Farms
Rome, Ga.
Snelson Wells Co.
Savannah, Ga.
Barnett-Paschal Co.
Washington, Ga.

IDAHO

Idaho Seed & Produce Co.
Aberdeen, Idaho
Idaho Grimm Alfalfa Seed Growers Assn.
Blackfoot, Idaho
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Northrup, King & Co.
Boise, Idaho
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Union Seed & Fuel Co.
Boise, Idaho
Buhl Seed & Grain Co.
Buhl, Idaho
Pioneer Seed & Grain Co.
Burley, Idaho
Lilly Seed Co.
Caldwell, Idaho
Oakes & Co., Edgar L.
Caldwell, Idaho
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Gooding Seed Co., The
Gooding, Idaho
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Duthie Co.
Lewiston, Idaho
Means Co., Mark
Lewiston, Idaho
Moscow-Idaho Seed Co.
Moscow, Idaho
Barlow Co., The Chas. W.
Twin Falls, Idaho
Globe Seed & Feed Co.
Twin Falls, Idaho
Intermountain Seed Co.
Twin Falls, Idaho

ILLINOIS

Funk Bros. Seed Co.
Bloomington, Ill.
(See Adv. on Page 31)
Vollbracht Co., Wm.
Camp Point, Ill.

Breeders of Seed Corn Since 1890

FIRST HYBRID SEED CORN SHIPPED IN 1916

"There's No Substitute for Experience"

Funks Have Hybrids Adapted to all Sections of the Corn Belt. Dealers Wanted.

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10 HAY AND GRAIN VARIETIES
CARLOTS A SPECIALTY

Certified Seed Stocks of ILLINI MANCHU MANDEL and DUNFIELD

Funk's Soybeans are the Cream of the Illinois Crop!

Originators of Funk Delicious Soybean
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Specializing in

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TIMOTHY
AND
SOY BEANS

We invite your inquiries.

GING & COMPANY

FARINA ILLINOIS

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Chicago, Ill.
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Chicago, Ill.
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Rudy-Patrick Seed Co.
Chicago, Ill.
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Sun-Field Seed Service
Chicago, Ill.
Schultz Seed Co., J. M.
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Keith & Son, L. J.—(Redtop)
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Egyptian Seed Growers Exchange—
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Forreston, Ill.
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Gibson City, Ill.
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Morris, Ill.
Kelly Seed Co.
Peoria, Ill.
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Eber Seed Co.
Quincy, Ill.
Keller & Sons, Geo.
Quincy, Ill.
Condon Bros. Seedsmen
Rockford, Ill.
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Pratt Seed Farms (Lespedeza)
Roseville, Ill.
Bastien, R. F. (Cowpeas)
Vergennes, Ill.

INDIANA

Foster-Kendall Co.
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Crabbs, Reynolds, Taylor Co.
Crawfordsville, Ind.
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Crawfordsville, Ind.
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Heldt Co., The
Evansville, Ind.
McCarty Co., The J. A.
Evansville, Ind.
Ohio Valley Seed Co.
Evansville, Ind.
Purcell Seed Co.
Evansville, Ind.
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Allied Seed Co.
Fort Wayne, Ind.
Indiana Seed Co.
Indianapolis, Ind.
Davis Seed Corporation
Lebanon, Ind.
Wertheimer & Sons, N.
Ligonier, Ind.
Scott Seed Co.
New Albany, Ind.
Quinlan Seed Store
Terre Haute, Ind.
McMahan Seed Co.
Valparaiso, Ind.

IOWA

Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
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Council Bluffs Seed Co. (Seed Corn)
Council Bluffs, Iowa
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Ouren Seed Co.
Council Bluffs, Iowa
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Davenport Seed Co.
Davenport, Iowa
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Sexauer & Son, Geo. P.
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Standard Seed Co.
Des Moines, Iowa
Dubuque Seed Co.
Dubuque, Iowa
Dakota Improved Seed Co.
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Northwestern Seed Co.
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Nishna Valley Seed Co. (Seed Corn)
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Michael-Leonard Seed Co.
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Wertz Seed Co.
Sioux City, Iowa

KANSAS

Assaria Hardware Co.
Assaria, Kans.
Mangelsdorf Seed Co., F. A.
Atchison, Kans.
Frazier's Seed Store
Coffeyville, Kans.
Bowman Seed Co.
Concordia, Kans.
Ogren-Roach Feed & Seed Co.
Hutchinson, Kans.
Union Seed Warehouse
Kirwin, Kans.
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Barteldes Seed Co.
Lawrence, Kans.
(See Adv. on Page 33)

Bartelde's SEEDS

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U. S. VERIFIED KANSAS ALFALFA SEED

BEANS PEAS BEETS
CARROTS CUCUMBERS

Most Complete Stock of Seeds in the Middle West

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Write or Wire Us
COUNCIL BLUFFS SEED COMPANY
COUNCIL BLUFFS, IOWA

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Coe Seed & Grain Co., D. O.
Topeka, Kans.
Ross Bros. Seed Co.
Wichita, Kans.

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Cottingham Grain Co. (Lespedeza)
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Yopp Seed Co.
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West Monroe, La.

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Cargill, Incorporated, (Seed Div.)
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Edgerton, Leslie
Minneapolis, Minn.
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Buy

HUNGARIAN

FIELD SEEDS

ALFALFA
RED CLOVER
CRIMSON CLOVER
WHITE CLOVER
WINTER PEAS
HAIRY VETCHES

High Purity and Germination

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GILROY CALIFORNIA

WHOLESALE FIELD SEEDS—Continued

Farm Service Co. (Div. of General Mills, Inc.)
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Twin City Seed Co.
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Van Dusen Harrington Co. (Seed Grains)
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Northern Field Seed Co.
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Rose Seed Co.
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Pace Seed & Supply Co.
Cleveland, Miss.
Walcott & Steele
Greenville, Miss.
Williams Co., P. P.
Vicksburg, Miss.
Harris Seed & Feed Co.
Yazoo City, Miss.

MISSOURI

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Peppard Seed Co.
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Rudy-Patrick Seed Co.
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Tobin Seed Co.
Kansas City, Mo.
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King City Seed Co. (Bluegrass)
King City, Mo.
Maupin Seed Co. (Bluegrass)
King City, Mo.
Chesmore Seed Co.
St. Joseph, Mo.
Kellogg-Kelly Seed Co.
St. Joseph, Mo.
Mitchelhill Seed Co.
St. Joseph, Mo.
Corneli Seed Co.
St. Louis Mo.
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Prunty Seed & Grain Co.
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Scott, T. Maurice (Broker)
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Springfield Seed Co.
Springfield, Mo.

MONTANA

Elliott Seed Co.
Billings, Mont.
Northern Montana Alfalfa Growers' Assn.
Glasgow, Mont.
Barkemeyer Seed Co.
Great Falls, Mont.
State Nursery & Seed Co.
Helena, Mont.
Searle Seed Co., The
Lewistown, Mont.
Phillips County Cooperative Marketing Assn. (Grimm and Ladak Alfalfa)
Malta, Mont.
Lakin Seed Co. (Alfalfa)
Miles City, Mont.
Northland Seed Co.
Sidney, Mont.

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Superior, Nebr.

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Varick Co., Jno. B.
Manchester, N. H.

NEW JERSEY

Doughten Seed Co., The
Jersey City, N. J.

NEW MEXICO

Mitchell Seed & Grain Co.
Roswell, N. Mex.

NEW YORK

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Harvey Seed Co.
Buffalo, N. Y.

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Duryea Seed Co., Inc.
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Williamson, Garfield
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Gardner Seed Co.
Rochester, N. Y.

NORTH CAROLINA

Asheville Seed Co.
Asheville, N. C.
Buxton White Seed Co.
Elizabeth City, N. C.
Hornaday Seed Co.
Greensboro, N. C.
Stegall Co., R. P. (Lespedeza)
Marshville, N. C.
Wyatt & Sons Co., Job P.
Raleigh, N. C.
Roudabush's Seed Store
Wilmington, N. C.

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Will & Co., Oscar H.
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Magill & Co. (Operating Fargo Seed House)
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Valker-Christensen Co.
Minot, N. Dak.
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OHIO

Botzum Bros. Seed Co.
Akron, Ohio
Holmes Seed Co.
Canton, Ohio
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Market Gardeners' Seed Co.
Cincinnati, Ohio
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McCullough Seed Co., The J. Chas.
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McCullough's Sons Co., The J. M.
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Livingston Seed Co.
Columbus, Ohio
Hoyt Co., The A. C.
Fostoria, Ohio
Weaver Seed Co.
Grand Rapids, Ohio
O. & M. Seed Co.
Green Springs, Ohio
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Ackerman Company
Lima, Ohio
Scott & Sons Co., O. M.
Marysville, Ohio
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Cover Seed Co., U. J.
Mt. Gilead, Ohio
Stoller's Seed House
Paulding, Ohio
Ingersoll Co., The Chas. M.
Rocky River, Ohio
Brown Seed Co.
St. Paris, Ohio
Flower Co., S. W.
Toledo, Ohio
Hirsch & Sons, Henry
Toledo, Ohio

OKLAHOMA

Oklahoma Grain & Seed Co.
Altus, Okla.
Chickasha Milling Co.
Chickasha, Okla.
Chickasha Seed Growers Co.
Chickasha, Okla.
Johnston, W. B.
Enid, Okla.
Billingslea Grain Co., E. O.
Frederick, Okla.
Southwest Seed Growers
Hobart, Okla.

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MINNEAPOLIS MINN.

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ST. LOUIS, MO.

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Muskogee Seed House
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Clarke & Keller Seed Store
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Binding-Stevens Seed Co.
Tulsa, Okla.

OREGON

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Albany, Ore.
Senders & Co., M.
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Engbretsen Seed Co. (Bent Grass)
Astoria, Ore.
Lewis & Clark Seed Co. (Bent Grass)
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Forest Grove, Ore.
Lilly Co., The Chas. H.
Portland, Ore.
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North Coast Seed Co.
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Pacific Seed Co.
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Portland Seed Co.
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Jenks White Seed Co.
Salem, Ore.
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Atlantic Seed Co.
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Philadelphia Seed Co. (Fancy Grasses)
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RHODE ISLAND

Barrett Co., The W. E.
Providence, R. I.
Woodworth Bradley, Inc.
Providence, R. I.

SOUTH CAROLINA

Bailey Seed Co.
Charleston, S. C.
Mixson Seed Co., Inc., W. H.
Charleston, S. C.
Shuler & Smoak
Orangeburg, S. C.

SOUTH DAKOTA

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Black Hills Seed Co.
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McMahon Co.
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Black Hills Seed Co.
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Security Mills
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Cook, L. P.
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Feld Seed Co., The
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Fidelity Seed Co.
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Russell-Heckle Seed Co.
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Schwill & Co., Otto
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Harrison & Alexander
Murfreesboro, Tenn.
Dobson-Hicks Co.
Nashville, Tenn.
Hardison & Son, E. K.
Nashville, Tenn.

TEXAS

Henneman Grain & Seed Co.
Amarillo, Texas
Roberts Grain Co.
Amarillo, Texas
Eastern Seed Co.
Corpus Christi, Texas
Stokes & Co., Francis C.
Corpus Christi, Texas
Magnolia Seed Co.
Dallas, Texas
Nicholson Seed Co., Robert
Dallas, Texas
Heid Bros. Corp.
El Paso, Texas
Jackson Seed Co., O. P.
Houston, Texas
Martin Seed Co.
Houston, Texas
Ferguson Seed Farms
Howe, Texas
Walker Grain & Seed Co.
Littlefield, Texas
Acme Seed Co.
Lubbock, Texas
Cone Grain & Seed Co., S. E.
Lubbock, Texas

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SALT LAKE CITY, UTAH

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WHOLESALE FIELD SEEDS—Continued

Stubbs-Young Grain & Seed Co.
Lubbock, Texas
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Lubbock, Texas
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Satex Seed Co.
San Antonio, Texas
Staffel Co., Ferd.
San Antonio, Texas
Martin-Lane Co.
Vernon, Texas
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Ruhman Grain & Seed Co.
Waco, Texas

UTAH

Kelly-Western Co.
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Occidental Seed Co.
Salt Lake City, Utah
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Westland Seed Co.
Salt Lake City, Utah

VERMONT

Middlebrook & Sons, J. O.
Burlington, Vt.

VIRGINIA

Smith Seed & Feed Co.
Danville, Va.
Wampler Feed & Seed Co.
Harrisonburg, Va.
Wetsel Seed Co.
Harrisonburg, Va.
Lynchburg Seed Co.
Lynchburg, Va.
Virginia Feed & Seed Co.
Lynchburg, Va.
Tait & Sons, Inc., George
Norfolk, Va.
Warren & Co., D. W.
Norfolk, Va.
Covington & Ritchie
Petersburg, Va.
Grossman & Son, W.
Petersburg, Va.
Ritchie, J. S.
Petersburg, Va.
Boehling & Co., F. H.
Richmond, Va.
Carter-Venable Co., Inc., The (Soybeans, Eureka Corn)
Richmond, Va.
Diggs & Beadles Seed Co.
Richmond, Va.

FIELD PEAS

BLUE BELLS
CANADIANS
MAROFATS
RED CLOVER SEED

VICTORY OATS
COMMON VETCH
HAIRY VETCH

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and
WASHINGTON
grown
CLOVERS
VETCHES
PEAS
RYEGRASS
etc.

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BY MARSHALL C. RUMSEY

Sole distributor in U. S. A. of original Svalof Seeds

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Original Svalof Victoria Ryegrass,
Original Svalof Brage Cocksfoot,
Original Svalof Scandia II Cocksfoot,
Original Svalof Svea White Clover (Wild),
Original Svalof Svea Alsyke Clover,
Original Svalof Late Flowering Red Clover,
Original Svalof Viking Red Fescue,
Original Svalof Early Fescue,
Original Svalof Late Fescue,
Original Svalof Fylking Kentucky Bluegrass,
Original Svalof Brome Grass,
Original Svalof Fox Tail,

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VICTORIA RYE GRASS
in U. S. A.

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Gardner Seed Co.	**Rochester, N. Y.**
The Chas. H. Lilly Co.	**Seattle, Wash.**
K. C. Livermore	**Honeoye Falls, N. Y.**
Meharry Farms	**Tolono, Ill.**

Growers for Seed of
SVALOF OAT VARIETIES

Letters below the name in the list indicate varieties: as V for Victory, S for Star, E for Eagle. The numerals 1, 2, 3 or 4 following the letter show the number of years from Original: as V3 is Victory 3 years, from Original Seed. S1V3 shows two varieties, Star 1 Yr., Victory 3 Yrs. V1,3 is Victory 1 and 3 years.

Caro Farmers Co-operative Elev. Co.	
V1,2	**Caro, Mich.**
Chesaning Farmers Elev. Co.	
S2	**Chesaning, Mich.**
Farm Produce Co.	
V2	**Cass City, Mich.**
Jasper Grain Co.	
S2V4	**Jasper, Mich.**
Dr. W. D. Johnson's Farms	
V1,3S1E1	**Batavia, N. Y.**
Metamora Elev. Co.	
V1,2,4	**Metamora, Ohio**
Unionville Milling Co.	
V2	**Unionville, Mich.**
Wallace & Morley Co.	
V2,1S1,2	**Bay Port, Mich.**
Yale Elev. Co.	
V2S1	**Yale, Mich.**
Chas. Woolahan Co.	
V2S2	**Birch Run, Mich.**
Ottawa County Co-op. Co.	
V3S1,2	**Oak Harbor, Ohio**
Blissfield Co-operative Co.	
V1	**Blissfield, Mich.**
J. P. Burroughs & Son	
V1	**Flint, Mich.**
The Equity Elevator Co.	
V1	**Delphos, Ohio**
Elkton Co-op Farm Produce Co.	
V1	**Elkton, Mich.**
The Hamler Co-op. Grain Association	
V1	**Hamler, Ohio**
C. A. Hiegel	
V1	**Leipsic, Ohio**
Holgate Grain & Supply Association	
V1	**Holgate, Ohio**
The Lenox Elevator Co.	
S1	**Richwood, Ohio**
Lapeer Grain Co.	
V1	**Lapeer, Mich.**
The French Corporation	
V1	**Middleville, Mich.**
McGuffey Elev. Company.	
S1	**McGuffey, Ohio**
Bitner & Leslie	
V1	**Paulding, Ohio**
Plainfield Grain Co.	
S1	**Plainfield, Ill.**
Willshire Co-op. Co.	
V1	**Willshire, Ohio**

Those interested in original Svalof seed stocks write

MARSHALL C. RUMSEY

BATAVIA, NEW YORK

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Wood & Sons, T. W.
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Roanoke, Va.

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Lilly Co., Chas. H.
Seattle, Wash.
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Northwest Seed Co.
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Spokane Seed Co.
Spokane, Wash.
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Yakima, Wash.
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WISCONSIN

Henry Michels Seed Co.
Fond du Lac, Wis.
La Crosse Seed Co.
La Crosse, Wis.
Olds Seed Co., L. L.
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Standard Seed Co.
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Courteen Seed Co.
Milwaukee, Wis.
Crossland, W. H.
Milwaukee, Wis.
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Kellogg Seed Co.
Milwaukee, Wis.
North American Seed Co.
Milwaukee, Wis.
Teweles Seed Co., L.
Milwaukee, Wis.
Cochrane Co., T. H.
Portage, Wis.

WYOMING

Northern Seed Co.
Sheridan, Wyo.

FOREIGN FIELD SEEDS

ARGENTINE REPUBLIC

Aron & Destefanis
Buenos Aires, Argentine
Bridger & Co.
Buenos Aires, Argentine
Crawford, Keen & Co.
Buenos Aires, Argentine

AUSTRALIA

Anderson & Co., Pty., Ltd.
Sydney, Australia
Austraseed Traders, Ltd.
Sydney, Australia
Brunning's Pty. Ltd., F. H.
Melbourne, Australia
Clements & Marshall, Ltd.
Devonport, Tas., Australia
Denhams, Pty., Ltd.
Brisbane, Queensland, Australia
Farmer & Co., Pty., Ltd.
Melbourne, Australia
Foster & Sons, Pty., Ltd.
Sydney, Australia
Gippsland & Northern Co-op Co., Ltd.
Melbourne, Australia
Harrap & Son, Ltd., Alfred
Launceston, Tas., Australia
H. W. Pty., Ltd.
Mascot, Sydney, Australia
McHutchison & Co.
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Law, Somner Pty., Ltd.
Melbourne, Australia
Peterson Bros. & Craig, Ltd.
Brisbane, Queensland, Australia
Railton, James
Melbourne, Vic., Australia
River Don Trading Co., Ltd.
Devonport, Tas., Australia
Seccombe, T. C.
Coff's Harbour, N. S. W., Australia
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Sydney, Australia
South Australian Farmers Co-op. Ltd.
Adelaide, S. A., Australia
Watter & Son Pty., Ltd.
Melbourne, Australia
Webb & Co., Ltd.
Devonport, Tas., Australia
Webster & Sons, A. G.
Hobart, Tas., Australia
Westralian Farmers Co-op., Ltd.
Perth, Australia
Yates & Co. Ltd., Arthur
Sydney, Australia

AUSTRIA

Gebruder, Boschan
Vienna, Austria
Hernfeld, Adolph
Vienna, Austria
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Cornelius, A. & C.
Arlon, Belgium

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Loewenthal Brothers
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Sachselova & Co., E.
Prague, Czecho Slovakia

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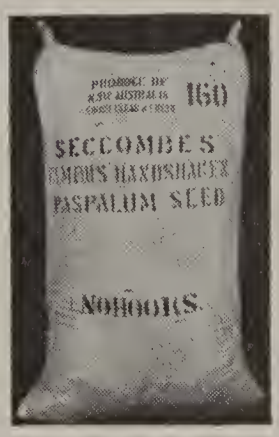
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This seed has proven itself as the most reliable on the market. It makes a fine pasture as it develops a strong vigorous growth, makes splendid hay, yielding enormous crops.

Frosts will not kill and floods will not injure . . . it has great drought resistant qualities.

Write me direct for prices and complete information.

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COFF'S HARBOUR, N. S. W. AUSTRALIA

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FOREIGN FIELD SEEDS—Continued

DANZIG

Handelsverband G.m.b.H.
Danzig
"Nasiona" Landw. Handelsges, m.b.H.
Langermarkt No. 1, Danzig
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Ryczke, Moritz
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Danielsen & Larsen, Ltd., E.
Nakskov, Denmark
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Dreyer, Fr.
Aarhus, Denmark
Hartmann & Co., Hjalmar
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Jensen, Bertel
Copenhagen, Denmark
Morso Fro Kontor
Nykobing Mors, Denmark
Nordisk Fro Kontor, Ltd.
Copenhagen, Denmark
Olsen, Chr., Ltd.
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Ostergaards Froavl
Stensballe, Horsens, Denmark
Stallknecht & Meyer
Copenhagen, Denmark
Trifolium A/S
Copenhagen, Denmark

ENGLAND

Burlingham, G., & Sons, Ltd.
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Dunns Farm Seeds
Salisbury, England
Gascoyne Co., Ltd., G.
Worcester, England
Goldsmith Bros., Ltd.
Bury St., Edmunds, England
Hasler & Co., Ltd.
Dunmow, Essex, England
Hurst & Son
London, England
Johnson & Son, Ltd., W. W.
Boston, England
Kelway & Son, Ltd.
Langport, Somerset, England
Le May & Co., C. W.
London, England
McMaster & Frankish
Seething Lane, London, England
Pope & Chapman, Ltd.
Bishop's Stortford, England
Sadd's Seeds, Ltd., Harold
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Whalley, Ltd., Thomas
Liverpool, England
Woods, Sadd, Moore & Co., Ltd.
London, England

ESTHONIA

Esthonian Seed Co.
Tallinn, Esthonia

FRANCE

Beillard, Frederic
Le Mans, Sarthe, France
Blain, Felix
St. Remy de Provence, France
Cretin, L., & Co.
Charlieu, Loire, France
Desjobert & Fils, E.
Moulins, Allier, France
Galabert, Fnd.
Caussade (Tarn-et-Garonne), France
Godineau, R.
Angers, Maine & Loire, France
Guignard, A.
Tours, France
Le Cureur Freres, C. & G.
Paris, France
Legrand, Paul
Moulins, Allier, France
Les Fils de Labbe Leplatre
Orleans, Loiret, France
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Lyon, Rhone, France
Palisse, H.
Chateauroux, Indre, France
Plan
Montelimar, Drome, France
Planchard, Cayla & Co.
Paris, France
Rousset & Fils
Paris, France
Salmon, Maurice (Broker)
Paris, France
Simon Louis Freres & Cie
Bruyeres-le-Chatel (Seine-et-Oise), France
Societe d'Exportation des Graines de Provence
Graveson, France
Tezier Freres
Valence-Sur-Rhone, France
Zidranski, Charles (Broker)
Paris, France

GERMANY

Bitterhoff, Sohn, August
Berlin, Germany
Boettcher, Jun., Otto
Gross-Tabarz (Thuer.), Germany
Boettcher & Voelcker
Tabarz in Thuringen, Germany
Bruhn, D. P., G.m.b.h.
Kiel, Germany
Chrestensen, V. L.
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FIELD SEEDS

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Ernst und von Spreckelsen
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Fiegel, Benno
Berlin, Germany
Ganzer & Spiessbach
Haale/Saale, Germany
Gebruder Kallmeyer, A. G.
Erfurt, Germany
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Stettin, Germany
Knoll, K.
Bamberg, Germany
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Hamburg, Germany
Metz & Co.
Berlin-Steglitz, Germany
Müller & Co., D.
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Leer in Ostfriesland, Germany
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Sachs & Beeg
Stettin, Germany
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Aschaffenburg, Germany
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Miltenberg, Bavaria, Germany
Terra, A-G.
Aschersleben, Germany
Wedel & Co.
Berlin, Germany
Weise & Pfaffe
Halle, Germany
Wissinger, G.m.b.H., A. & W.
Berlin, Germany
Zulzer, Gustav
Hamburg, Germany

HOLLAND

Barenbrug's Zaadhandel
Arnheim, Holland
Hermans, J. B.
Maasbracht, Holland
Hommo Ten Have's Seed Co.
Scheemda, Holland
Mommersteeg's Zaadteelt en Zaadhandel, N. V. H.
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Arnhem, Holland
Zwaan & de Wiljes Seed Co., Inc.
Scheemda, Holland

HUNGARY

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Tibor, Kemeny
Budapest, Hungary

INDIA

American Seed & Nursery Co. (Regd.)
Lahore, India
Sulabh Nursery & Seed Co. (Jute Seed)
Calcutta, India
Sutton & Sons, Ltd.
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Pini, Ernesto
Bologna, Italy
Pratense Soc. An.
Bologna, Italy
Sgaravatti Bros.-Sementi
Padova, Italy

JAPAN

Koda & Co.
Osaka, Japan
Sancho Schoten
Bandaidio, Yokohama, Japan

JUGOSLAVIA

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Sjeme
Osijek, Slovenia
Teply, B.
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Grimstad Gartneri
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Michelet, A.
Oslo, Norway
Norsk Froforsyning, A. S.
Hamar, Norway
Norsk Fro., A. S.
Oslo, Norway
Rogalands Faelleskjop
Stavanger, Norway
Vestlandske Kjopelag
Bergen, Norway

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Krakow, Poland

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Cross Seed Co., Ltd., Alexander
Glasgow, Scotland
Donaldson & Co., Ltd., John
Edinburgh, Scotland
Lawson & Son, Ltd., Peter
Edinburgh, Scotland

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Starke & Co., Ltd., C.
Mowbray, Capetown, South Africa

SWEDEN

Allmanna Svenska Utsadesaktiebolaget
Svalof, Sweden
Bjorkmann, Eftr. Aktiebolaget, A. & Co.'s
Stockholm, Sweden
Engstrom Aktiebolaget, Carl
Eslof, Sweden
Hallands Frokontor, Aktiebolaget
Getinge, Sweden
Holmberg Aktiebolaget, Algot & Sons
Norrkoping, Sweden
Olson Aktiebolag, Otto J., & Son
Hammenhog, Sweden
Skane-Hallands Utsades A-B.
Helsingborg, Sweden
Weibull Aktiebolaget, W.
Landskrona, Sweden

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Gerber-Kneubuhler
Burgdorf, Switzerland
Haubensak Sohne, Friedr.
Basel, Switzerland
Mauser, Emil
Zurich, Switzerland
Muller & Cie, E., S-A.
Zurich, Switzerland
Schweizer & Cie
Thun, Switzerland
Vatter, A. G., G. R.
Bern, Switzerland

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Birmingham, Ala.

Pharr Co., King (Okra)
Catherine, Ala.

Wind & Co., I.
Huntsville, Ala.

Van Antwerp Seed Co.
Mobile, Ala.

Montgomery Seed Co.
Montgomery, Ala.

ARKANSAS

Lee, Arthur G.
Fort Smith, Ark.

Bass-Isgrig Seed Co.
Little Rock, Ark.

Cochran Co., H. K.
Little Rock, Ark.

Word Seed Store
Texarkana, Ark.

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Pacific Seed Co.
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Sherwood Seed Co.
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Haven Seed Co. (Tomatoes)
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Hamilton, Ont., Canada

Ewing, The Wm. Co., Ltd.
Montreal, Quebec

Keith & Sons, Geo.
Toronto, Canada

McKenzie Co., Ltd., A. E.
Toronto, Canada

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Toronto, Canada

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James, R. H.
Rocky Ford, Colo.

Woodside Seed Growers Co.
Rocky Ford, Colo.
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McMahan Seed Co.
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Greensboro, N. C.

Wyatt & Sons Co., Job P.
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Muskogee, Okla.

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Portland Seed Co.
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Mixson Seed Co., Inc., W. H.
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Stokes & Co., Francis C.
Corpus Christi, Texas

Magnolia Seed Co.
Dallas, Texas

Nicholson Seed Co., Robert
Dallas, Texas

American Seed Co.
Fort Worth, Texas

Jackson Seed Co., O. P.
Houston, Texas

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Houston, Texas

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WYOMING

Associated Seed Growers, Inc.
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Racine, Wis.

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Kimberlin Seed Co.
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Haven Seed Co. (Tomato)
Santa Ana, Calif.
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• ONION SEED • ONION SETS

• FLOWER SEED

GROWERS, WHOLESALE DEALERS

COMSTOCK, FERRE & COMPANY

WETHERSFIELD CONNECTICUT

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Michael-Leonard Seed Co.
Chicago, Ill.
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Wilt-Resistant Market and Home Garden Varieties of Peas.

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McCREA SEED CO.

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SANTA BARBARA CALIFORNIA

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Boston, Mass.

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MARGLOBE



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CAMBRIDGE N. Y.

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Associated Seeds, Inc.
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Leckenby, Jim
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BUIST'S

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Established 1885
SEATTLE, WASH., U.S.A.

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Worland, Wyo.

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Austra Seed Co., Ltd.
Sydney, N. S. W., Australia

Brunning Pty. Ltd., F. H.
Melbourne, Victoria, Australia

Foster & Sons Pty., Ltd.
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Gippsland & Northern Co-op. Co., Ltd.
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Law, Somner & Co.
Melbourne, Victoria, Australia

Martin & O'Keefe, Ltd.
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Peterson Bros. & Craig, Ltd.
Brisbane, Queensland, Australia

Railton, James
Melbourne, Victoria, Australia

Shepherd & Sons, Ltd., P. L. C.
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Watters & Son Pty., Ltd.
Melbourne, Victoria, Australia

Yates & Co., Ltd., Arthur
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Hartmann & Co., Hjalmar
Copenhagen, Denmark
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Helm-Petersen Co., I. C.
Aarhus, Denmark

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Reliable Stocks







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GRAND RAPIDS MICHIGAN

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Krogh, A.
Odense, Denmark

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Ormskirk, England

Cooper, Taber & Co., Ltd.
London, England

Cullen & Sons, Thos.
Witham, England

Cundy, Chas., & Son
Sudbury, Suffolk, England

Dunns Farm Seeds, Ltd.
Salisbury, England

Harrison & Sons
Leicester, England

Hurst & Son
London, England

Johnson & Son, Ltd., W. W.
Boston, England

Kelway & Son, Ltd.
Langport, Somerset, England

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Joncquieres (Vaucluse), France

Boret, Victor
Saumur (Maine & Loire), France

Camut
Angers (Maine & Loire), France

Cayeux & LeClerc
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Bretigny sur Orge (S & O), 9, rue du Louvre, Paris, France
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Carignan (Ardennes), France

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Fontaine, G.
Bourg Achard (Eure), France

Garcin, L. Bernard
St. Saturnin-lez-Avignon, Vaucluse, France

Garcin & Mistral
St. Remy de Provence (Bouches du Rhone), France

Godineau, R.
Angers (Maine & Loire), France

Hamonet, A.
Angers (Maine & Loire), France

Honore Roumanille & Fils
St. Remy-de-Provence, France

Imbach
Angers (Maine & Loire), France

Leonard Lille
Lyon-Villeurbanne (Rhone), France

Moreau Freres
Brain Sur l'Authion, France

Picard & Co., A.
Orleans (Loiret), France

Pucel, Jules
Cambrai (Nord), France

Simon Louis Freres & Cie
Bruyeres-le-Chatel (S. & O.), France

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Heinemann, F. C.
Erfurt, Germany

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Rieder, Quedlinburg, Germany

Hofmann, Joh. Thomas
Nurnberg, Germany

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Aschersleben, Germany

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Van Den Berg Bros., Ltd.
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"Selecta" Seed Growing Co., Ltd.
Budapest, Hungary

INDIA

American Seed & Nursery Co. (Regd.)
Lahore, India
Dijon & Son
Ghatsila, B. N. R. (British India)
Pocha & Sons, Pestonjee P.
Poona, India
Sarup & Sons
Maymyo, Burma, India
Sutton & Sons, Ltd.
Calcutta, India

ITALY

Borgatti, Giovanni
Bologna, Italy
Bulleri, Francesco
Scafati (Salerno), Italy
Herb, M.
Naples, Italy
Ingegnoli, Sigg Fratelli
Milan, Italy
Mennella, Ditta Carmine Faraone
Torre Del Greco (Near Naples), Italy
Pagano Costantino & Fratelli, Ditta Rag.
Scafati (Salerno) Italy
Sgaravatti Fratelli-Sementi
Padova, Italy

JAPAN

Fujita Seed Co.
Osaka, Japan
Koda & Co., C.
Osaka, Japan
Nishikata & Sons, Z.
Yokohama, Japan
(See Adv. on Page 85)
Sakata & Co., T.
Yokohama, Japan
(See Adv. on Page 83)
Tanaka & Co., J.
Osaka, Japan
(See Adv. on Page 87)
Yamato Seed & Imp. Co.
Mejiro, Tokyo, Japan

MANCHURIA

Manshu Nosan Shokai, Inc.
Dairen, So. Manchuria
(See Adv. on Page 86)

NEW ZEALAND

Cooper, Ltd., F.
Wellington, New Zealand
Nimmo & Blair
Dunedin, New Zealand
Wright, Stephenson & Co., Ltd.
Wellington, New Zealand
(See Adv. on Page 76)
Yates & Co., Ltd., Arthur
Auckland, New Zealand



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Foremost wholesale seed growers in France since 1796

BRETIGNY sur ORGE (s et o) France

Growers of High Class Pedigree Strains

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CAULIFLOWER · — KOHLRABI
SPINACH · — ONION



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FOREIGN GARDEN SEEDS—Concluded

NORWAY

Berle A/S, Sigv. Chr.
Bergen, Norway
Gartneri, Grimstad
Grimstad, Norway
Herlofsen's Frohandel
Oslo, Norway
A. S. Norsk Fro.
Oslo, Norway
Olsen's Enke A/S, J.
Oslo, Norway

SCOTLAND

Bell Ltd., David
Leith, Scotland
Cross Seed Co., Ltd., Alexander
Glasgow, Scotland
Lawson & Son, Ltd., Peter
Edinburgh, Scotland

SWEDEN

Daenfeldts Frohandel, A. B. L.
Helsingborg, Sweden
Gehlins Frohandel, A. B.
Malmo, Sweden
Goteborgs Tradgardsforening
Gothenburg, Sweden
Holmberg & Son, Aktiebolaget, Algot
Norrkoping, Sweden
Ohlsens Enke A/B, J. E.
Malmo, Sweden
Weibull Aktiebolaget, W.
Landskrona, Sweden

SWITZERLAND

Dammann, F.
Lugano, Switzerland
Haubensak Sons, Fr.
Basel, Switzerland
Mauser, Emil
Zurich, Switzerland
Muller & Cie
Zurich, Switzerland

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Cable Address: Wrightson WELLINGTON NEW ZEALAND

U. S. A. Agent: W. H. Crossland, 1961 North Summit Avenue, Milwaukee, Wisconsin

Patronize those who made it possible to publish this Directory

See Advertisers' Index on Pages 335 and 336

EDMUND MAUTHNER, Ltd.



BUDAPEST,
Hungary.

★

Cable address:
MAUTHNEREK
BUDAPEST

★

Established: 1874

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Specialties
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L. DAEHNFELDT, LTD. ODENSE

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LONGEVITY OF FLOWER SEEDS

Prepared by Bodger Seeds, Ltd., El Monte, California,
and the Ransom Seed Laboratory, Los Angeles, California.

KEY TO SYMBOLS AND ABBREVIATIONS USED IN TABLE

B—Seed placed between blotters.
TB—Seed placed on top blotters.
T—Seed placed between folds of paper towels.
P—Seed placed on cotton, in petri dishes in 30° chamber for 7 hours and in 20° from 4 P. M. to 9 A. M. daily.
20-30 at 20° for 16 hours, and at 30° for 8 hours daily.
*—More information needed before drawing final conclusions on best method of testing.
13° C.—55° F. 20° C.—68° F. 30° C.—86° F.

NAME OF FLOWER SEED	Medium Used in Germination	Temperature (Centigrade)	Period of Germination (Days)	Approximate Longevity (Years)	Approximate No. Seeds Per Ounce
Achillea The Pearl	TB	20	14	4	200,000
Acroclinium	B	20–30	14–20	3	9,000
Ageratum	TB	20–30	14	4	214,000
Agrostemma	B	20–30	10–14	4	60,000
Alyssum	TB	20	10–20	4	60,000
Amaranthus	TB	20–30	6–10	4–5	30,000
*Ammobium	TB	20	14	1–2	76,800
Anagallis	TB	20	21	4–5	41,900
*Anchusa Italica	T	20–30	14–20	3	1,200
*Anemone	TB	20	28–40	2	40,100
Anthemis	TB	20	14	2	85,500
Antirrhinum	P	13	10–14	3–4	220,000
Aquilegia	P	20–30	30–50	2	17,500
Arabis	TB	20	21	2–3	160,000
*Armeria	TB	20	14	2	12,000
Asparagus	T	20–30	14–30	1	600
Aster	TB	20	8–12	1–2	12,000
Aubrietia	TB	20	25	2	85,000
Balloon Vine	T	20–30	14–40	3–4	400
Balsam Flower	B	20	10–14	5–6	3,500
Bartonia	P	13	5–10	1–2	41,200
Bellis (English Daisy)	TB	20	10–14	2–3	192,000
Bidens	TB	20	10	2	29,600
*Boltonia	TB	20–30	20	5	100,000
Brachycome	TB	20	10	3–4	150,000
Browallia	TB	20	28–40	2–3	70,000
Cacalia	TB	20	12–14	1–2	57,900
Calendula	T	20–30	14	5–6	4,000
Calliopsis	TB	20	14	2–3	100,000
Campanula Medium	TB	20–30	14	3	125,000
Candytuft	TB	20	14	2–3	10,000
Canna	T	20–30	14	3	100
Carnation	TB	20	10	4–5	15,000
Celosia	TB	20–30	6–10	4	30,000
Centaurea Americana	B	20–30	20–30	1–2	2,500
Centaurea Cyanus	TB	20–30	15	3	7,000
*Centaurea Gymnocarpa	B	20–30	14–30	1–2	7,500
Centaurea Imperialis	TB	20–30	15	1–2	8,000
Centaurea Moschata	TB	20–30	12–14	1–2	10,500
Cheiranthus Allioni	TB	20	14	2–3	20,000
*Chelone	B	20	20–30	1–2	50,000
Chrysanthemum Annual	B	20	11–18	4–5	10,000
Cineraria	TB	20	15	3–4	100,000
Clarkia	TB	20	14	2–3	100,000
*Clianthus	T	20–30	10	1	4,460
Cobea	B	20–30	21	2	400
Coix	T	20–30	14	2–3	120
Coleus	P	20–30	14	2	115,000
Collinsia	TB	20–30	12–14	1–2	32,500
Convolvulus Major	B	20–30	10–14	4–5	1,500
Coreopsis	TB	20	21	2	12,000
Cosmos Mammoth	B	20–30	10–14	3–4	5,500
Cosmos Orange Flare	P	20–30	14		3,000
Cyclamen	B	20	21	4–6	
Cynoglossum	B	20	10	2–3	5,300
Dahlia	B	20–30	10	2–3	3,000
*Datura	B	20–30	15–21	3–4	2,000
Delphinium	P	13	15–21	1	10,000
Dianthus	TB	20	6–10	4–5	28,000
Didiscus	B	20	12–14	2–3	10,300
Digitalis	TB	20–30	15	2	200,000
Dimorphotheca (African Daisy)	B	20	15–21	1	10,000
Dolichos	T	20–30	10	4	115
Erigeron	TB	20–30	14	2	107,500
Eschscholtzia	TB	20	10	2	15,000
Euphorbia Heterophylla	P	20–30	7	2–3	5,300
*Euphorbia Variegata	P	20–30	19	3–4	2,500
*Felicia	TB	20	19	2–3	173,800
Gaillardia Grandiflora	B	20	15–20	4	10,000
Gaillardia Picta	B	20	15–20	2	15,000
Gamolepis	B	20	16–21	2	39,700
*Geranium	B	20	30–40	1	6,200
Gerbera	B	20–30	14	1	16,000
Geum	TB	20–30	21	2	7,000
*Gilia	B	20	10	5–6	110,400
Godetia	TB	20	15	3	100,000
Gomphrena	B	20–30	15	2–3	5,800
Gourds Small Mixed	T	20–30	14	3–4	500
Gourds Large Mixed	T	20–30	14	3–4	150
Gypsophila Elegans	TB	20	10–14	2	25,000
Gypsophila Paniculata	TB	20	10–14	4	35,000
Helianthus Cucumerifolius	B	20–30	10–14	2–3	9,000
Helianthus Double Chrysanthemum Flowered	T	20–30	10–14	2–3	700

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LONGEVITY OF FLOWER SEEDS *(Continued)*

NAME OF FLOWER SEED	Medium Used in Germination	Temperature (Centigrade)	Period of Germination (Days)	Approximate Longevity (Years)	Approximate No. Seeds Per Ounce
Helichrysum	TB	20	14	1–2	45,000
•Heliotrope	TB	20–30	21	1–2	55,000
Hesperis	TB	20–30	18	3–4	16,000
Hibiscus	T	20–30	15–30	3–4	4,000
Hollyhock	T	20	21	2–3	3,800
•Humulus	T	20–30	30–40	1–2	2,500
Hunnemannia	P	30	14	2	8,550
Impatiens Holstii	TB	20	15	2	60,000
Ipomea Cardinal Climber	B	20–30	10	5	1,000
Ipomea Cypress Vine	B	20–30	10	4–5	2,200
Ipomea Japanese Selected	T	20–30	21	2–3	700
Ipomea Noctiflora	T	20–30	40–60	2–3	120
Kochia	TB	20–30	10	1	50,000
Larkspur	P	13	20–28	1–2	8,700
Lathyrus Latifolius	T	20	21	3–4	600
•Lavatera	TB	20	14–35	4–5	5,500
•Leptosiphon	TB	20	15	2–3	115,200
Leptosyne Stillmanii	TB	20	15	2–3	26,900
Maritima	TB	20	15	2–3	13,900
Lilium Regale	B	20	21	1	6,650
Linaria	P	13	15	2–3	610,200
Linum Perenne	P	13	21–30	1–2	8,500
Linum (Scarlet Flax)	P	13	14	5	9,000
Lobelia	TB	20–30	10–15	3–4	750,000
Lunaria (Honesty)	B	20	14–21	1–2	1,650
Lupin Hartwegii	B	20–30	10	2	1,500
Lupin Nanus	B	20–30	10	2	1,800
Lupin Polyphyllus	B	20–30	21–30	2	1,450
Lychnis	TB	20	21–30	2–3	65,000
Marigold African	TB	20–30	8	2–3	11,000
Marigold French	TB	20–30	8	2–3	10,000
Marvel of Peru	T	20–30	14	2–3	350
Matricaria	TB	20–30	11–14	2–3	150,000
Mesembryanthemum	B	20	14	3–4	200,000
Mignonette	P	13	11–14	2–4	30,000
Myosotis	TB	20	14	2	44,000
Nasturtium Golden Gleam	T	20	12–14	6–7	175
Nasturtium Tall Single Mixed	T	20	12–14	6–7	250
Nemesia	P	13	18–21	2–3	100,000
Nemophila	P	13	7–10	2	17,700
Nepeta	TB	20	17	2–3	53,600
Nicotiana	P	20–30	10	3–4	200,000
Nigella	TB	20–30	14	1–2	12,000
•Oenothera	TB	20–30	31	2	98,200
Pansy	TB	20	14	1–2	22,000
Passiflora	T	20–30	30–40	1	1,700
Pentstemon	TB	20–30	17	2	60,000
Petunia Hybrida Mixed	TB	20	10	2–3	262,000
•Phacelia	P	13	15	2	58,000
Phlox	TB	20	10–15	1–2	18,000
Physalis	TB	20–30	21	1–2	18,900
Physostegia	B	20–30	25	2–3	16,500
•Platycodon	B	20–30	12–15	2–3	30,000
Polemonium	TB	20–30	20	2	33,800
Poppy Carnation Flowered	P	13	10–14	4–5	72,575
Poppy Glaucum	P	13	10–14	4–5	374,850
•Poppy Nudicaule	TB	20–30	10–14	3–4	448,000
Poppy Oriental	P	13	10–14	5	150,000
Poppy Shirley	P	13	10–14	5–6	72,575
•Portulaca	TB	20–30	14	3	300,000
Pueraria (Kudzu Vine)	T	20–30	30–50	4	2,500
Pyrethrum Aureum	TB	20–30	21	1	200,000
Pyrethrum Roseum	TB	20–30	21	1	22,000
•Ranunculus	TB	20	30–40	6–7	
Rhodanthe	B	20	18	2–3	13,300
Ricinus Zanzibariensis	T	20–30	12–15	2	30
Salpiglossis	TB	20–30	14	6–7	125,000
Salvia (Scarlet Sage)	B	20–30	14	1	7,500
Sanvitalia	TB	20	10	4–5	50,250
•Saponaria Vaccaria	B	20	10	2	6,000
Scabiosa Annual	B	20–30	14–21	2–3	5,000
•Schizanthus	P	13	21–30	4–5	46,000
Shasta Daisy	TB	20	10–14	1–2	25,000
Smilax	T	20–30	32	1	8,000
Statice Sinuata	T	20–30	14–21	2–3	375 heads
Stocks	TB	20–30	6–10	5–6	19,000
Stokesia	B	20	28	2	3,500
Sweet Peas	T	20	10	2–3	390
Sweet William	TB	20	6	2	31,000
•Thalictrum	B	20	30	1	12,800
•Thunbergia Alata	B	20–30	21	2	1,200
•Thunbergia Gibsoni	T	20	10–14	2	830
Tithonia	B	20–30	25	2	4,000
Torenia	P	30	14	1–2	375,000
Tritoma	TB	20–30	21	2	22,400
•Venidium	P	13	12–25	1–2	70,000
Verbena	TB	20–30	14	1	12,500
Vinca Rosea	TB	20	14	1–2	22,000
Viola	TB	20	14	1	25,000
Virginian Stock	TB	20	12	1–2	69,500
Wallflower	TB	20	10–14	5	15,000
•Wild Cucumber	B	20–30	10–20	2	125
Wisteria	T	20	7	2	60
Xeranthemum	TB	20	10–14	2	20,000
Zinnia Dahlia Flowered Mixed	B	20–30	5–10	6–7	2,800
Zinnia Lilliput Mixed	B	20–30	5–10	6–7	4,600

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GROWERS FLOWER SEEDS

CALIFORNIA

Bodger Seeds, Ltd.
El Monte, Los Angeles County, Calif.
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Pieters-Wheeler Seed Co. (Sweet Peas)
Gilroy, Calif.
(See Adv. on Page 36)

Rohnert Co., Waldo (Sweet Peas)
Gilroy, Calif.
(See Adv. on Page 69)

Waller-Franklin Seed Co.
Guadalupe, Calif.
(See Adv. on Page 81)

Buckman, Harry F.
Lompoc, Calif.
(See Adv. on Page 81)

Zvolanek, Ant. C. (Sweet Peas)
Lompoc, Calif.
(See Adv. on Page 97)

Germain Seed & Plant Co.
Los Angeles, Calif.
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Diener Co., Richard
Oxnard, Calif.
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Ferry-Morse Seed Co.
San Francisco, Calif.
(See Adv. on Page 60)

Braslan Seed Growers Co., Inc.
San Jose, Calif.
(See Adv. on Page 205)

Kimberlin Seed Co. (Sweet Peas)
San Jose, Calif.
(See Adv. on Page 61)

MacDonald Seed Co., The Wm.
Santa Maria, Calif.
(See Adv. on Page 105)

Standard Seed Farms Co.
Stockton, Calif.
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CANADA

Steele, Briggs Seed Co., Ltd.
Toronto, Canada
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COLORADO

Colorado Seed Co.
Denver, Colo.

Rocky Mountain Seed Co.
Denver, Colo.

Grand Junction Seed Co. (Zinnias)
Grand Junction, Colo.
(See Adv. on Page 53)

Burrell Seeds, Inc.
Rocky Ford, Colo.
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Standard Seed Farms Company
WHOLESALE GROWERS GARDEN SEEDS
Stockton California

BEET
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CELERY
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NEW MARIGOLD CHRYSANTHEMUM FLOWERED ORANGE (INCURVED


NEW PETUNIA HYBRIDA TOPAZ ROSE


NEW SWEET PEA EARLY FLOWERING SPENCER DELICIOUS

TESTED NOVELTIES WORTHY OF A PLACE IN YOUR NEW CATALOG

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Orange (Incurved)
Yellow (Incurved)
Golden Orange (Incurved)
Mixed (Incurved)
AGERATUM FAIRY PINK
SHAKESPEARE'S PANSIES
PETUNIA HYBRIDA TOPAZ ROSE
SCABIOSA GIANT ANNUAL SALMON BEAUTY
SCABIOSA ANNUAL ORCHID SHADES
STOCK SUPER GIANT IMPERIAL BLUSH PINK
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SWEET PEA EARLY FLWG. DELICIOUS
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IDAHO

Woodacres, Fred B. Wood
Boise, Idaho

ILLINOIS

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Chicago, Ill.
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Chicago Flower Growers, Inc.
Chicago, Ill.
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Vaughan's Seed Store
Chicago, Ill.
Condon Bros. Seedsmen
Rockford, Ill.
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LOUISIANA

Kalmbach-Burckett Co., Inc.
Shreveport, La.

NEW JERSEY

Leonard, I. & J. L.
Ionia, N. J.
Vick, E. C. (Russell Lupines)
Newark, N. J.
Bedman Bros.
Rahway, N. J.

NEW YORK

Harris Co., Joseph
Coldwater, N. Y.
Crosman Seed Corporation
East Rochester, N. Y.
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Herbst Bros.
New York, N. Y.
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Vaughan's Seed Store
New York, N. Y.

NORTH CAROLINA

Buxton White Seed Co.
Elizabeth City, N. C.

OHIO

Holmes Seed Co.
Canton, Ohio
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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
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OREGON

Ellis, Mrs. Merton G. (Pansy)
Canby, Ore.
Harrold's Pansy Gardens (Pansy)
Grants Pass, Ore.
Steele's Pansy Gardens (Pansy)
Portland, Ore.
Hood Acres,
Troutdale, Ore.

PENNSYLVANIA

Landreth Seed Co., D.
Bristol, Pa.
Burpee Co., W. Atlee
Philadelphia, Pa.
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TEXAS

Nicholson Seed Co., Robt.
Dallas, Texas

VERMONT

Hawkins, Budd D.
Reading, Vt.

WISCONSIN

Toole, W. A.
Baraboo, Wis.
Rugowski Seed Co., J. K.
Manitowoc, Wis.

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ARCH & FRONT STREETS
PHILADELPHIA, PA.
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Exporters
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PIGEON GRAINS—BIRD SEEDS

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YOKOHAMA, JAPAN

AGENTS

HERBST BROTHERS

92 Warren St. NEW YORK, N. Y.

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FOREIGN FLOWER SEEDS

AUSTRALIA

Anderson & Co. Pty. Ltd.
Sydney, N. S. W., Australia
Brunning, Pty., Ltd., F. H.
Melbourne, Australia
Farmer & Co. Pty., Ltd.
Melbourne Australia
Foster & Sons Pty., Ltd.
Sydney, N. S. W., Australia
Gill & Searle
Melbourne, Australia
Hackett, Ltd., E. & W.
Adelaide, S. A., Australia
Law Somner Pty., Ltd.
Melbourne, Victoria, Australia
Martin & O'Keefe, Ltd.
Sydney, N. S. W., Australia
Railton, James
Melbourne, Victoria, Australia
Shepherd & Sons, Ltd. P. L. C.
Sydney, N. S. W., Australia
Watters & Sons, Ltd.
Melbourne, Victoria, Australia
Yates & Co. Ltd., Arthur
Sydney, N. S. W., Australia

CANARY ISLANDS

Wildpret Bros.
Port Orotava, Tenerife, Canary Islands

DENMARK

Daehnfeldt, Ltd., L.
Odense, Denmark
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Ohlsen's Enke, J. E.
Copenhagen, Denmark
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ENGLAND

Bunting & Co., G. A.
London, W. C. I., England
Cooper, Taber & Co., Ltd.
London, England
Harrison & Sons
Leicester, England
Hurst & Son
London, England
Kelway & Son, Ltd.
Langport, England
King & Co., Ltd., E. W.
Coggeshall, Essex, England
Sharpe & Co., Ltd., Chas.
Sleaford, England
Watkins & Simpson, Ltd.
London, England

FRANCE

Barbier & Fils, P. A.
St. Remy-de-Provence (Bouches du Rhone), France
Cayeux & Le Clerc
Paris, France
Clause, L. S. A.
9, rue du Louvre, Paris, France
Bretigny-Sur-Orge (S. & O.), France
(See Adv. on Page 75)
Honore Roumanille & Fils
St. Remy-de-Provence (Bouches du Rhone), France
Huber & Co., Ch.
Hyeres-les-Palmiers (Var), France
Moreau Bros.
Brain-Sur-l'Authion (Maine & Loire), France
Perrin, Louis
St. Remy-de-Provence (Bouches du Rhone), France
Rachet Freres
St. Remy-de-Provence (Bouches du Rhone), France
Rivoire Pere & Fils
Lyon (Rhone), France
Roumanille Lafayette Pere & Fils
St. Remy-de-Provence (Bouches du Rhone), France
Roustan Servan & Cie
St. Remy-de-Provence, France
Simon Louis Freres & Cie
Bruyeres-le-Chatel (S. & O.), France
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Valence-Sur-Rhone (Drome), France
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Stendal, Germany
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Dippe Gebruder, A. G.
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Fischer, Ferdinand (Cyclamen)
Wiesbaden-Aukamm, Germany
Haubner, August
Eisleben, Germany
Heinemann, F. C.
Erfurt, Germany
Hesse & Sohn, Robt.
Rieder Quedlinburg, Germany
Mehler, Carl
Halbertstadt, Germany
Kaiser, Ferdinand
Eisleben, Germany
Leid, Wilhelm
Arnstadt, Germany
Liebau & Co.
Erfurt, Germany
Lorenz, Chr.
Erfurt, Germany

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COPENHAGEN, DENMARK

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symbols and exact color denominations

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Mette & Co., Heinrich
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Pape & Bergmann
Quedlinburg, Germany
Putz, Otto
Erfurt, Germany
Sachs, David
Quedlinburg, Germany
Stenger & Rotter
Erfurt, Germany
Teicher, Paul
Striegau, Germany
Weigelt & Co.
Erfurt, Germany
Wrede, H. (Pansy)
Lueneburg, Germany
Zacharias, Paul
Ermsleben, Germany

HOLLAND

N. Clause, N. V.
The Hague, Bezuidenhout, Holland
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Aalsmeer, Holland
Rood & Zoon, P.
Bovenkarspel, Holland
Sluis Bros., Ltd.
Enkhuizen, Holland
Sluis & Groot's Zaadteelt & Zaadhandel
Enkhuizen, Holland
Vis Bros.
Enkhuizen, Holland

INDIA

Dijon & Son,
Ghatsila, B. N. R. (British India)
Ghose & Co., G.
Darjeeling, India
Pocha, Pestonjee Pochanjee
Poona, Bombay Presy, India
Sutton & Sons
Calcutta, India

ITALY

Bulleri, Francesco
Scafati, Italy
Ditta, D'Anna Francesco
San Giovanni A Teduccio, Italy
Herb, M.
Naples, Italy
Mennella Ditta Carmine Faraone
Torre Del Greco (Near Naples), Italy
Pagano Costantino & Fratelli, Ditta Rag
Scafati (Salerno), Italy

JAPAN

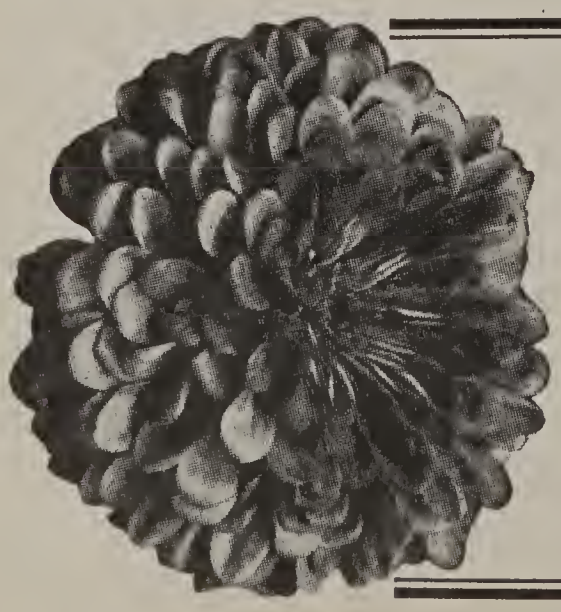
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Dammann, F.
Lugano, Switzerland
Haubensak Sons, Fr.
Basel, Switzerland
Mauser, Emil
Zurich, Switzerland
Muller & Co., Ltd.
Zurich, Switzerland



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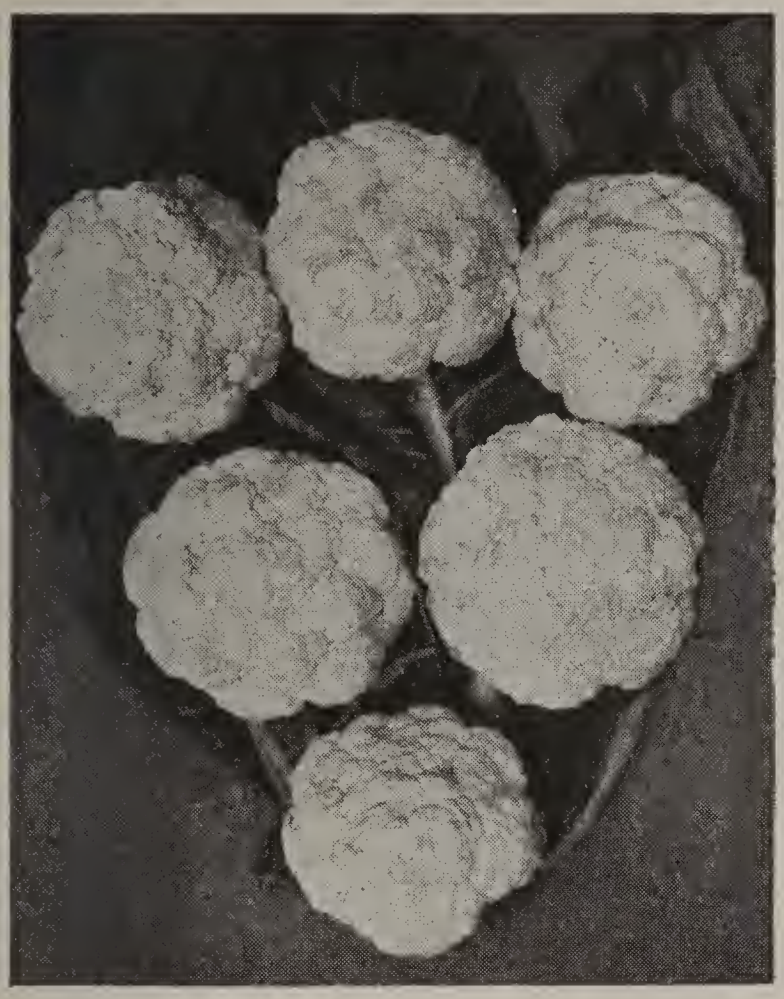
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Write for Trade List and Samples.

North American Agents

I. L. RADWANER SEED CO., Inc.

115 Broad St. NEW YORK, N. Y.

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BULBS, PLANTS AND MISCELLANEOUS SEEDS

BULBS—AMERICAN DEALERS

Aggeler & Musser Seed Co.
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De Graaf Bros.
Noordwyk, Holland

De Graaf & Sons, H.
Lisse, Holland

Grullemans & Sons, J. J.
Lisse, Holland

Segers Brothers
Lisse, Holland

Steelman & Sons, C. J.
Sassenheim, Holland

Tegelaar Bros.
Lisse, Holland

Vanderschoot N. V., John B.
Hillegom, Holland

Van Waveren Stamhois Nurseries
Hillegom, Holland

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Bunting & Co., Isaac
Yokohama, Japan

Nishikata & Sons, Z.
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SEEDS

From the Heart of the Gardenland of the World

Specializing in

● Beans ● Fava Beans ● Beets ● Carrots ● Celery ● Swiss Chard ● Endive ● Lettuce ● Onion, Including Advanced Strains ● Parsley ● Parsnip ● Peas ● Radish ● Turnips ● Vine Seeds

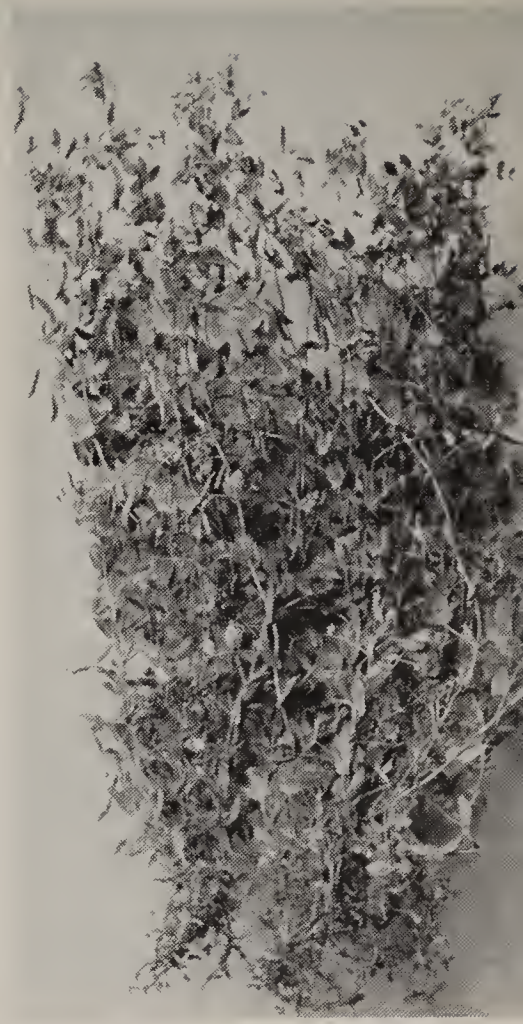
Field Seeds

● Alfalfa ● Ladino Clover
● Sudan Grass ● Sunflower
● Melilotus Indica ● Vetches
● Bur Clover ● Rye Grass
● Austrian Winter Peas
● Strawberry Clover
● Dallis Grass





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The Outstanding New Flower for 1938!

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Burpee's Salmon Supreme Petunia
Wins Highest All-America Award 1938

Burpee's Orange Fantasy Calendula
Wins Highest Calendula Award 1938

Highest Quality
Flower & Vegetable Seeds

—at Low Prices for More Profit to Seedsmen

CONSULT the Burpee List for Annual and Perennial Flower Seeds; also Vegetable Seeds, and enjoy lower merchandise costs for 1938!

Write for Burpee's Red List *and other information for Seedsmen*

Burpee Gold Marigold with odorless foliage

1938 Will Be Another Marigold Year!

Hundreds of Acres of Highest Quality Flower Seeds Harvested Yearly on Our

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All Popular Annuals, Perennials, and Peak-Selling Novelties
Marigolds, Zinnias, Petunias, Sweet Peas, Double Nasturtiums, Snapdragons, Asters, Are Burpee Specialties

Also Extensive Vegetable Acreages in Idaho, Michigan, Montana, Wyoming, California

W. ATLEE BURPEE CO.
SEED GROWERS *Philadelphia*
Burpee's Seeds Grow

BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

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Tanaka & Co., J.
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Tokyo Konoen, Ltd.
Tokyo, Japan

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East Rutherford, N. J.

Bohlender Sons, Peter
Tippecanoe City, Ohio

Clinton Falls Seed & Nursery Co.
Owatonna, Minn.

Cutler & Downing Co.
Benton Harbor, Mich.

Ernst Nurseries
Eaton, Ohio

Forest Nursery Co.
McMinnville, Tenn.

French Nurseries
Clyde, Ohio

Germain Seed & Plant Co.
Los Angeles, Calif.
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Harmel Peony Co.
Berlin, Md.

Harmon Nursery
Prospect, Ohio

Hill Nursery, D., The
Dundee, Ill.

Jackson & Perkins Co.
Newark, N. Y.

Mount Arbor Nurseries
Shenandoah, Iowa

Naperville Nurseries
Naperville, Ill.

North-Eastern Forestry Co., The
Cheshire, Conn.

Northfield Seed & Nursery Co.
Northfield, Minn.

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Bound Brook, N. J.

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Ashford, N. C.

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State Nursery & Seed Co.
Helena, Mont.

Storrs & Harrison Co.
Painesville, Ohio

Washington Nursery Co.
Toppenish, Wash.

Weaver Gardens Co., The
Wichita, Kans.

Westminster Nurseries, The
Westminster, Md.

Wickliffe, Ray (Osage Orange Seed)
Seneca, Kans.

Willadean Nurseries, Inc.
Sparta, Ky.

Willis Nursery Co., The
Ottawa, Kans.

Wilson & Co., C. E.
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Clark, Mrs. Fred
Van Horn, Texas

Crescent Cactus Co.
Ranger, Tex.

Desert Plant Co.
El Paso, Texas

Lone Star Seed Co.
Olden, Tex.

Southwest Desert Nurseries
Las Cruces, N. Mex.

EVERGREENS

Appalachian Evergreen Co.
Doeville, Tenn.

Conwell, Inc., H. Ernest
Milton, Dela.

Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.

Grassyfork Fisheries
Martinsville, Ind.

Jackson & Perkins Co.
Newark, N. Y.

Naperville Nurseries
Naperville, Ill.

North-Eastern Forestry Co.
Cheshire, Conn.

Robbins, E .C.
Ashford, N. C.

Rosebank Nursery Co.
Huntsville, Ala.

State Nursery & Seed Co.
Helena, Mont.

Storrs & Harrison Co., The
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Swedberg Bros. Nurseries
Battle Lake, Minn.

FERNS

Robbins, E .C.
Ashford, N. C.

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Nursery Stock

THE RETAIL dealer in seeds and agricultural and horticultural supplies is the logical person to supply the home owner with his nursery stock. It is natural for him to go to the place where he buys his seeds and garden accessories when he wants to purchase his trees, shrubs and plants.

Here are some worthwhile pointers for dealers handling nursery stock:

Make a connection with a reliable nursery which can furnish first class stock on short notice.

* * *

If adequate storage room is available, order some of the most popular items of nursery stock in order to have it available at the moment it is wanted.

* * *

If there is a vacant lot near your store, it is a good plan to use it in the early spring for displaying nursery stock.

It sometimes is advisable to order from the nursery's catalog and send the orders direct to the nursery with which you are doing business. In this case, the orders can be packed and delivered to the store or they can be shipped direct from the nursery.

* * *

It is always a good idea to display nursery stock in the front of the store. These "side walk" displays, especially in the spring of the year, are great stimulators of sales.

* * *

Attractive window displays should be arranged at just the right time.

* * *

Many dealers have found it profitable to offer a planting service. When this is done, some one familiar with landscaping procedures, calls on home owners and suggests that he make complete plans for landscaping the yard. After finding out from the prospect just what trees and shrubs are desired, a definite price estimate is made for the job and the result is almost always a good sized and worthwhile order.

* * *

Keep in close touch with the builders of new homes in the community. If the prospect is properly approached, the dealer not only can get the order for shrubs, trees and perennials, but the order for lawn grass seed as well. It pays to make friends with these newcomers in your community.

* * *

Have your outside salesman carry the nursery catalog right along with him because he will often find that he can obtain an order for nursery stock even though he may fail at the time to get a seed order.

* * *

Keep in close contact with individuals who have charge of the maintenance of parks, playgrounds, cemeteries and schools. They require various nursery stock items every year and these contacts will help you to develop an excellent business.

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CASE FOR ROSES

WRAPPED ROSES, SHRUBS PERENNIALS for COUNTER TRADE

The roots of each plant wrapped separately ready to hand over to customers.

Write or wire for prices

CASE FOR PERENNIALS



Also a complete line of Trees, Shrubs, and other nursery items.

ONARGA NURSERY CO.

ONARGA ILLINOIS

JOHN DIRKMAAT COMPANY

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DUTCH BULBS
JAPANESE LILIES
GERMAN GROWN LILY OF THE VALLEY
DOMESTIC GROWN DAFFODILS
GLADIOLUS
IRIS
TUBEROSE
CANNAS

Flower and Vegetable Seeds

We are the American Representatives of the DUTCH SEEDGROWERS

Ask for prices on large contracts of vegetable seeds.

GLADIOLUS

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of

QUALITY BULBS

●

All the best cut flower varieties
Send for Catalogue

●

WALKERS GLADIOLUS FARMS

ROBERT R. WALKER, Prop.

So. Main St. Mansfield, Mass.

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BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

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Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
Jackson & Perkins Co.
Newark, N. Y.
May Seed & Nursery Co.
Shenandoah, Iowa
Potter Sales Nursery Co.
McMinnville, Tenn.
Rosebank Nursery Co.
Huntsville, Ala.
Smithville Nursery Co.
Smithville, Tenn.
Storrs & Harrison Co., The
Painesville, Ohio

FRUIT—SMALL

Bauer Plant Co., J. A. (Strawberry)
Judsonia, Ark.
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
Schifferli & Son Nurseries, The F. E.
Fredonia, N. Y.
Storrs & Harrison Co., The
Painesville, Ohio
Thomas, W. W. (Strawberry)
Anna, Ill.

GRAPE VINES

Munson Nurseries
Denison, Texas
Storrs & Harrison Co., The
Painesville, Ohio

ORNAMENTALS

Brainard's Nurseries & Greenhouses, Inc.
Des Moines, Iowa
Cumberland Valley Nursery Co., Inc.
McMinnville, Tenn.
Jackson & Perkins Co.
Newark, N. Y.
Mount Arbor Nurseries
Shenandoah, Iowa
Naperville Nurseries
Naperville, Ill.
Storrs & Harrison Co., The
Painesville, Ohio

PERENNIALS

Cottage Gardens, The (Peonies)
Lansing, Mich.
Grassyfork Fisheries
Martinsville, Ind.
Jackson & Perkins Co.
Newark, N. Y.
Mount Arbor Nurseries
Shenandoah, Iowa
Naperville Nurseries
Naperville, Ill.
Onarga Nursery Co.
Onarga, Ill.
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Storrs & Harrison Co., The
Painesville, Ohio

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Hemet, Calif.
Jackson & Perkins Co.
Newark, N. Y.
Naperville Nurseries
Naperville, Ill.
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Simpson Nursery Co.
Monticello, Fla.
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Storrs & Harrison Co The
Painesville, Ohio
Verhalen Nursery Co.
Scottsville, Tex.

WATER PLANTS

Aquatic Plant Nursery
New Orleans, La.
Auburndale Goldfish Co.
Chicago, Ill.
Everglades Aquatic Nurseries, Inc.
Tampa, Fla.
Grassyfork Fisheries
Martinsville, Ind.
Lakeview Ponds, The
Mt. Airy, Cincinnati, Ohio
Loveland Goldfish Farms
Loveland, Ohio
Pacific Goldfish Farm
Westminster, Calif.
Pomona Nurseries,
Dade City, Fla.
Vaughan's Seed Store
Chicago, Ill.
Woodford Water Gardens
Van Nuys, Calif.

ONION SET GROWERS

Algers, K. W.
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Barteldes Seed Co.
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DeGraff, Peter
South Holland, Ill.
DeYoung & Sons, A. T.
South Holland, Ill.



A B C Bulbs

FOR FALL SALE

We are headquarters for Tulips, Hyacinths, Crocuses, Paper-White Narcissi, Japanese Lilies of all kinds, Candidum and Regal Lilies, Callas and Freesias.

FOR SPRING SALE

Gladioli, Cannas, Caladiums, Gloxinia, Begonias, Etc.

FLOWER SEEDS. The finest to be had.

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Bulb Growers

We Specialize in:

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Domestic Grown Daffodils	Perennials
Paperwhites	Gladiolus
Amaryllis	Dahlias
Crinums	Cannas
Iris	Begonias
Lily of the Valley	Gloxinias
Calla Lilies	

and many other items listed in our catalogs issued regularly.

We welcome your inquiry.

THE HOUSE OF RYNVELD

SAN FRANCISCO, CALIF.
JACKSONVILLE, FLA.
YAPHANK, L. I.
CENTRAL PARK, L. I.
SASSENHEIM, HOLLAND
TORONTO, CANADA

Lawler's

BULBS

famous for Quality

Daffodils—Jonquils
Narcissus—Tulips
Bulbous Iris
Hardy Lilies
Muscari, etc.

Be the Lawler Bulb Dealer in your territory

Quotations on Request

GEORGE LAWLER

Wholesale Bulb Grower

GARDENVILLE - TACOMA, WASH.

SEAL-KRAFT

Seal-pakt Seal-Potted

ROSES

VINES SHRUBS PERENNIALS, ETC.

Scientifically Prepared and packed to meet the most exacting demands.

A COMPLETE PLANT AND GARDEN SERVICE AVAILABLE. FULL PARTICULARS ON REQUEST

C. E. WILSON & CO., INC.

MANCHESTER, CONNECTICUT

Southern Packing Plant
Jacksonville, Texas

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BULBS, PLANTS AND MISCELLANEOUS SEEDS—Continued

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Gouwens & Sons, T. T.
South Holland, Ill.

Grand Junction Seed Co.
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Gridley Maxon Co.
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Hollenbach, Peter
Chicago, Ill.

Illinois Onion Set Growers Exchange
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Joannides, D. N.
Salonica, Greece

Kaufmann's Onion Set Warehouse
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Landreth Seed Co., D.
Bristol, Pa.

Michael-Leonard Seed Co.
Chicago, Ill.
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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
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Meeters, Inc.
Lansing, Ill.
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Northrup, King & Co.
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Pals Bros.
So. Holland, Ill.

Rau, Lawrence
Chicago, Ill.

Saltiel, Fils D'Isac S.
Salonica, Greece

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Kirkwood, N. Y.

Skidelsky & Co., S. S.
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State Nursery & Seed Co.
Helena, Mont.

VEGETABLE PLANTS

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Albany, N. Y.

Alger, K. W. (Grower)
Crystal City, Texas

Alvy, Jack
Van Buren, Ark.

Bullock's Plant Farm
White Springs, Fla.

Butt's Plant Farms
Thorndale, Tex.

Carlisle Plant Farms
Valdosta, Ga.

Carolina Seed & Plant Co.
Florence, S. C.

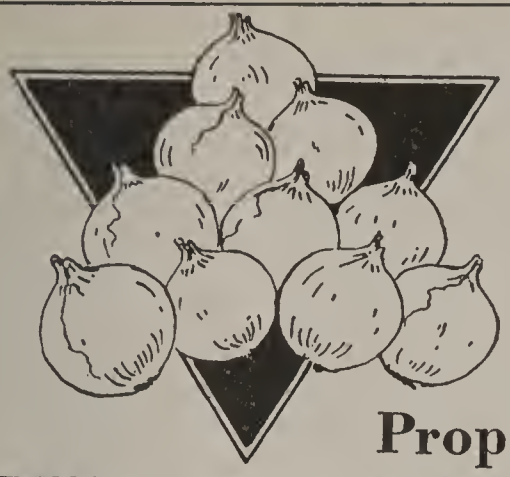
Crescent Farms
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Farmers Supply Co.
Franklin, Va.

Foulks Plant Farms, C. G.
Amite, La.

Fulwood, P. D.
Tifton, Ga.

Geraty & Co., Wm. C.
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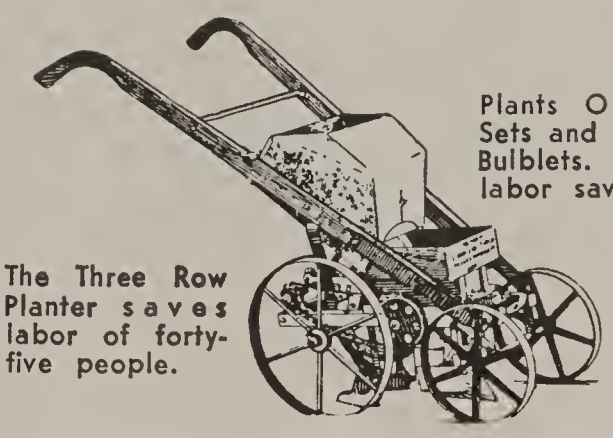
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Sioux City, Iowa

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New Haven, Conn.

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Rice Seed Co., Jerome B.
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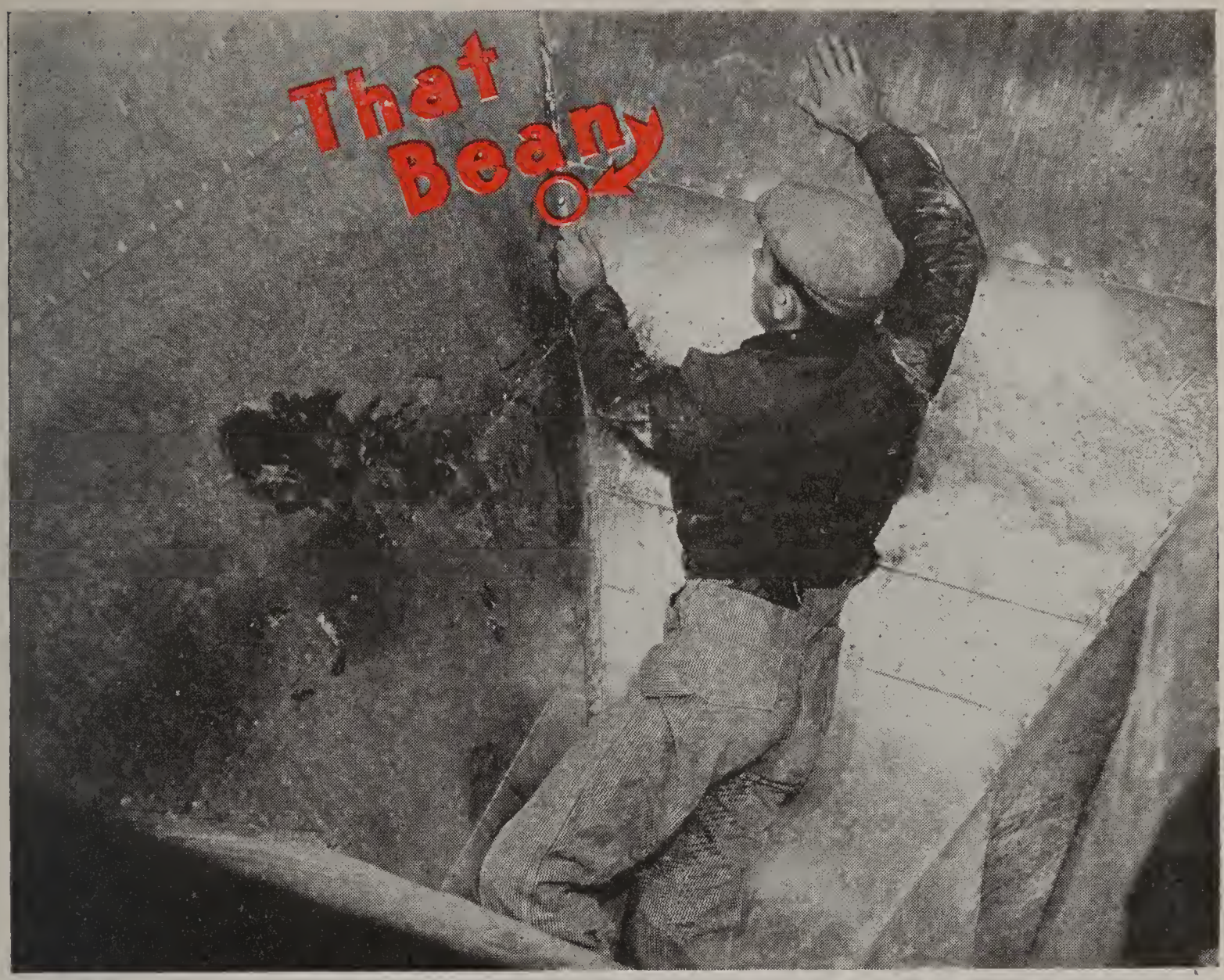
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(See Adv. on Page 39)
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For
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Publications . . .
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See Page 334

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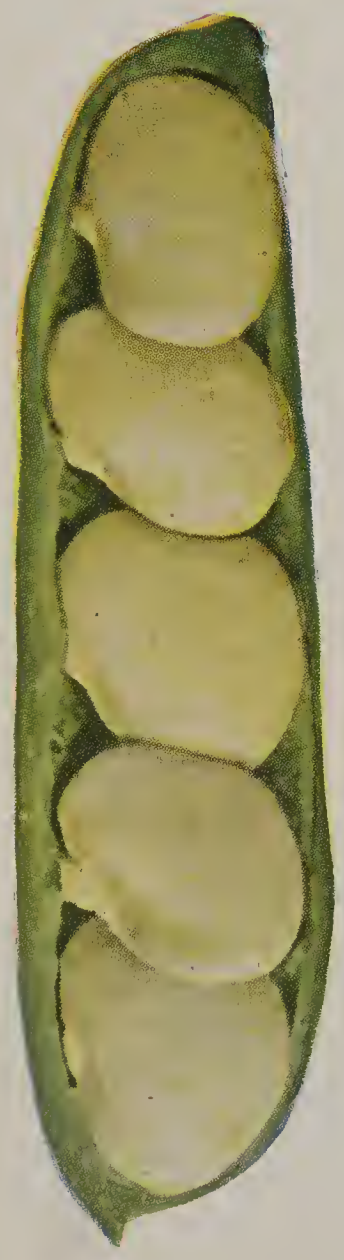
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Common Weeds

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Professors A. H. Larson and R. B. Harvey of the Section of Plant Physiology and Agricultural Botany of the Division of Plant Pathology and Botany, University Farm, St. Paul, Minnesota.

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QUACK GRASS

AGROPYRON REPENS



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CANADA THISTLE

CIRSIUM ARVENSE



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CLOVER DODDER

CUSCUTA ARVENSIS



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FIELD - BINDWEED

CONVOLVULUS ARVENSIS



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SOW THISTLE
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LEAFY SPURGE

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SHEEP SORREL

RUMEX ACETOSELLA



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WILD CARROT

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POISON HEMLOCK
CICUTA MACULATA



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PERENNIAL PEPPER GRASS

LEPIDIUM DRABA.



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NIGHT FLOWERING CATCHFLY

SILENE NOCTIFLORA



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HORSE NETTLE

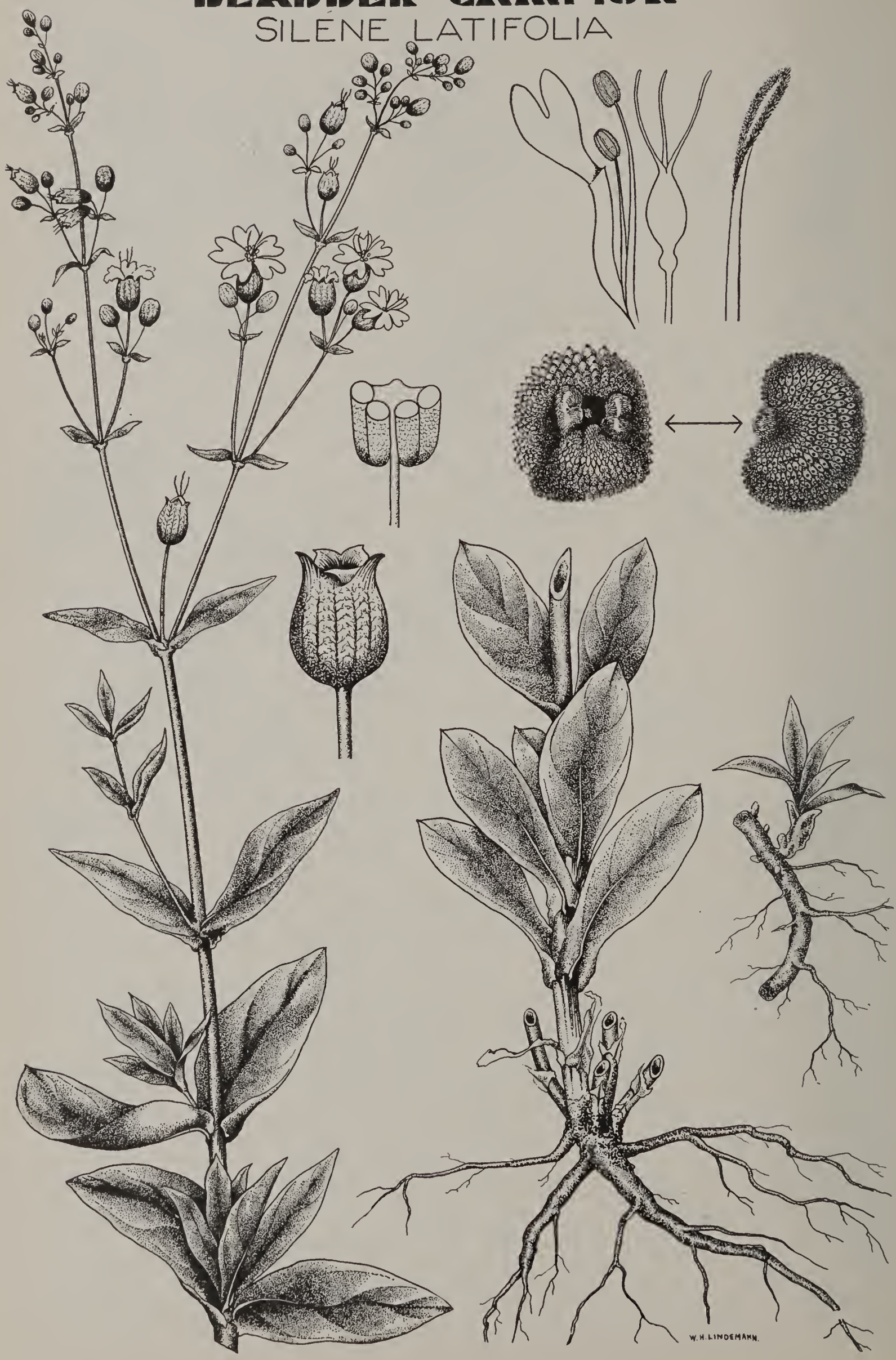
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BLADDER CAMPION

SILÉNE LATIFOLIA



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PLATE 1



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Sudan grass. 2.—Johnson grass. 3.—Slender paspalum. 4.—Field paspalum. 5.—Dallis grass. 6.—Crabgrass. 7.—Smooth crabgrass. 8.—Witchgrass. 9.—Fall panicum. 10.—Proso; broomcorn millet; or hog millet. 11.—Switchgrass. 12.—No common name. 13.—Barnyard grass. 14.—Japanese millet. 15.—Yellow bristlegrass; or yellow foxtail. 16.—Green bristlegrass; or green foxtail. 17.—Hungarian millet. 18.—Golden millet; or common millet. 19.—German millet. 20.—Field sandbur. 21.—Orchard grass. 22.—Crested dogtail. 23.—Poverty three-awn. 24.—Timothy.

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PLATE 2



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Meadow foxtail. 2.—Water foxtail. 3.—Slender foxtail. 4.—Sand dropseed. 5.—Scratch dropseed. 6.—Puff dropseed. 7.—Redtop. 8.—Colonial bent; Rhode Island bent; or browntop. 9.—Velvet bent. 10.—Windgrass. 11.—Club-awn. 12.—Velvet grass. 13.—Soft-grass. 14.—Silver hairgrass. 15.—Crinkled hairgrass. 16.—Tufted hairgrass. 17.—Yellow trisetum. 18.—Wild oat. 19.—Tall oatgrass. 20.—Poverty oatgrass. 21.—Bermuda grass. 22.—Lavendar grass. 23.—Stinkgrass. 24.—Desert saltgrass.

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PLATE 3



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Sweet vernalgrass. 2.—Annual vernalgrass. 3.—Annual bluegrass. 4.—Canada bluegrass. 5.—Kentucky bluegrass. 6.—Rough bluegrass; or rough-stalked meadow grass. 7.—Wood bluegrass; or wood meadow grass. 8.—Bulbous bluegrass. 9.—Fowl mannagrass. 10.—American mannagrass. 11.—Rattail fescue. 12.—Meadow fescue. 13.—Reed fescue. 14.—Smooth brome; or awnless brome grass. 15.—Downy chess. 16.—Soft chess. 17.—Chess; or cheat. 18.—Smooth chess. 19.—Perennial ryegrass; or English ryegrass. 20.—Italian ryegrass. 21.—Darnel. 22.—Quackgrass. 23.—Slender wheatgrass. 24.—Bluestem; or western wheat grass.

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PLATE 4



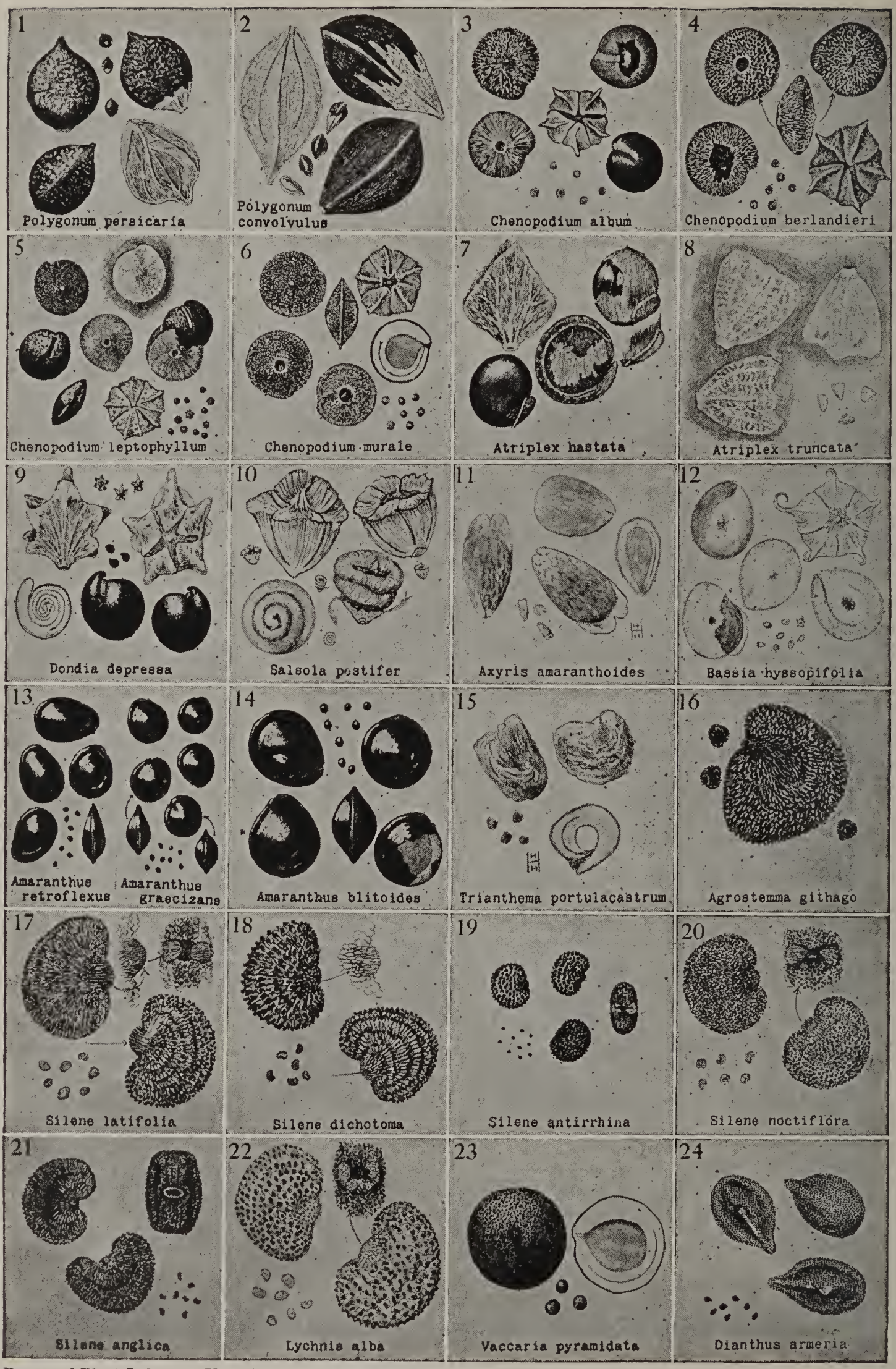
Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Nutgrass. 2.—No common name. 3.—Slender spikerush. 4.—Blunt spikerush. 5.—No common name. 6.—No common name. 7.—Bulrush. 8.—Bulrush. 9.—Sedge. 10.—Path rush. 11.—Field woodrush. 12.—Forest woodrush. 13.—Wild garlic. 14.—Big nettle; or stinging nettle. 15.—Curly dock. 16.—Bitter dock. 17.—Green dock. 18.—Garden sorrel; or sour dock. 19.—Sheep sorrel. 20.—Silversheath knotweed. 21.—Knotweed. 22.—Bigseed ladysthumb. 23.—Pale ladysthumb. 24.—Smartweed.

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PLATE 5



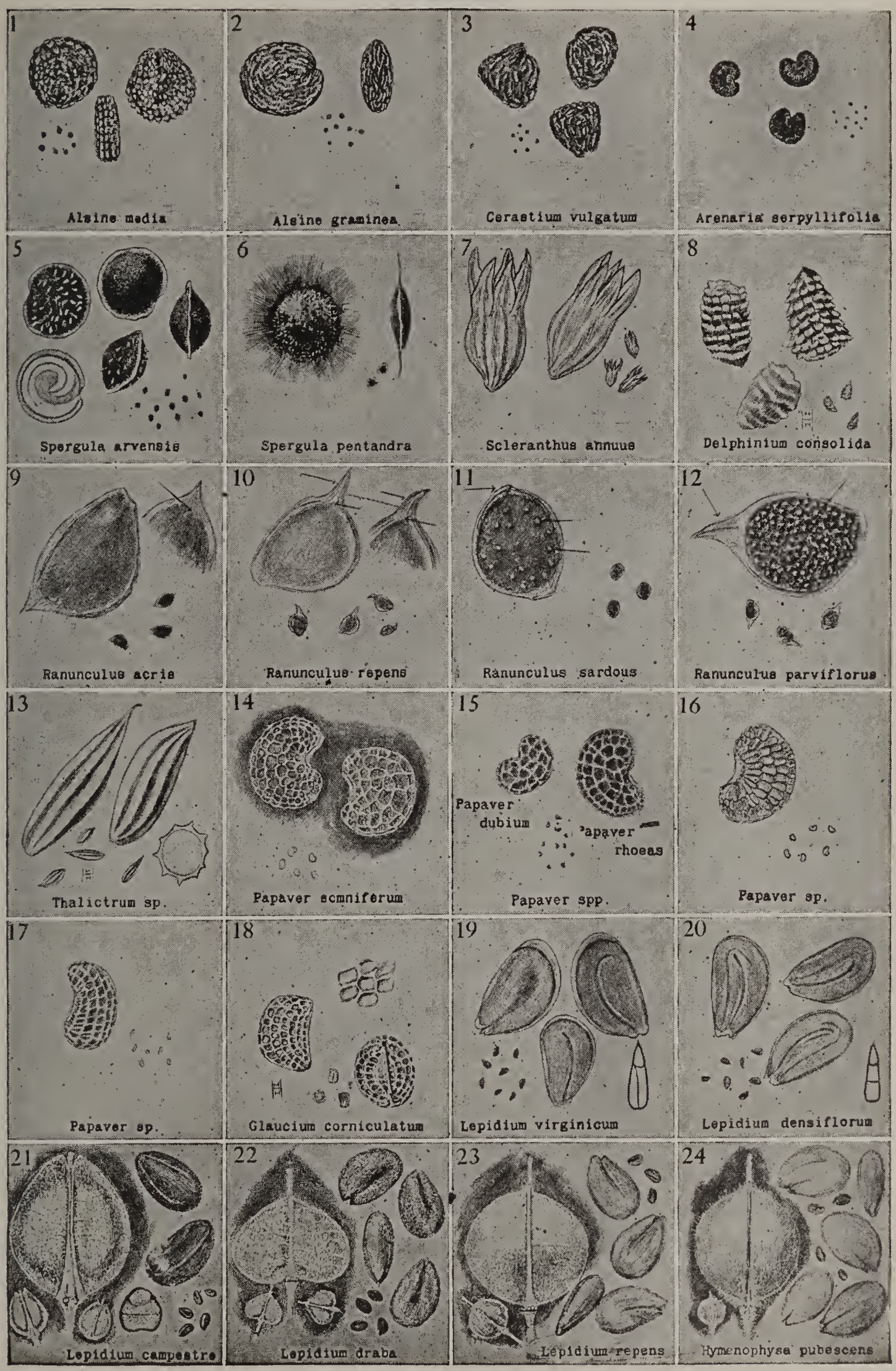
Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Ladysthumb. 2.—Cornbind; or black bindweed. 3.—Lambsquarters. 4.—Pitseed goosefoot. 5.—Narrowleaf goosefoot. 6.—Nettleleaf goosefoot. 7.—Fat-hen; or saltbush. 8.—Wedgescale orach; or saltbush. 9.—Seepweed. 10.—Russian thistle. 11.—Russian pigweed. 12.—Fivehook bassia. 13.—Redroot amaranth; or rough pigweed. Tumble amaranth. 14.—Spreading amaranth. 15.—Horse-purslane. 16.—Corncockle. 17.—Bladder campion. 18.—Clover catchfly; or forked catchfly. 19.—Sleepy catchfly. 20.—Nightblooming catchfly. 21.—English catchfly. 22.—Evening campion; or white campion. 23.—Cowcockle. 24.—Deptford pink.

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PLATE 6



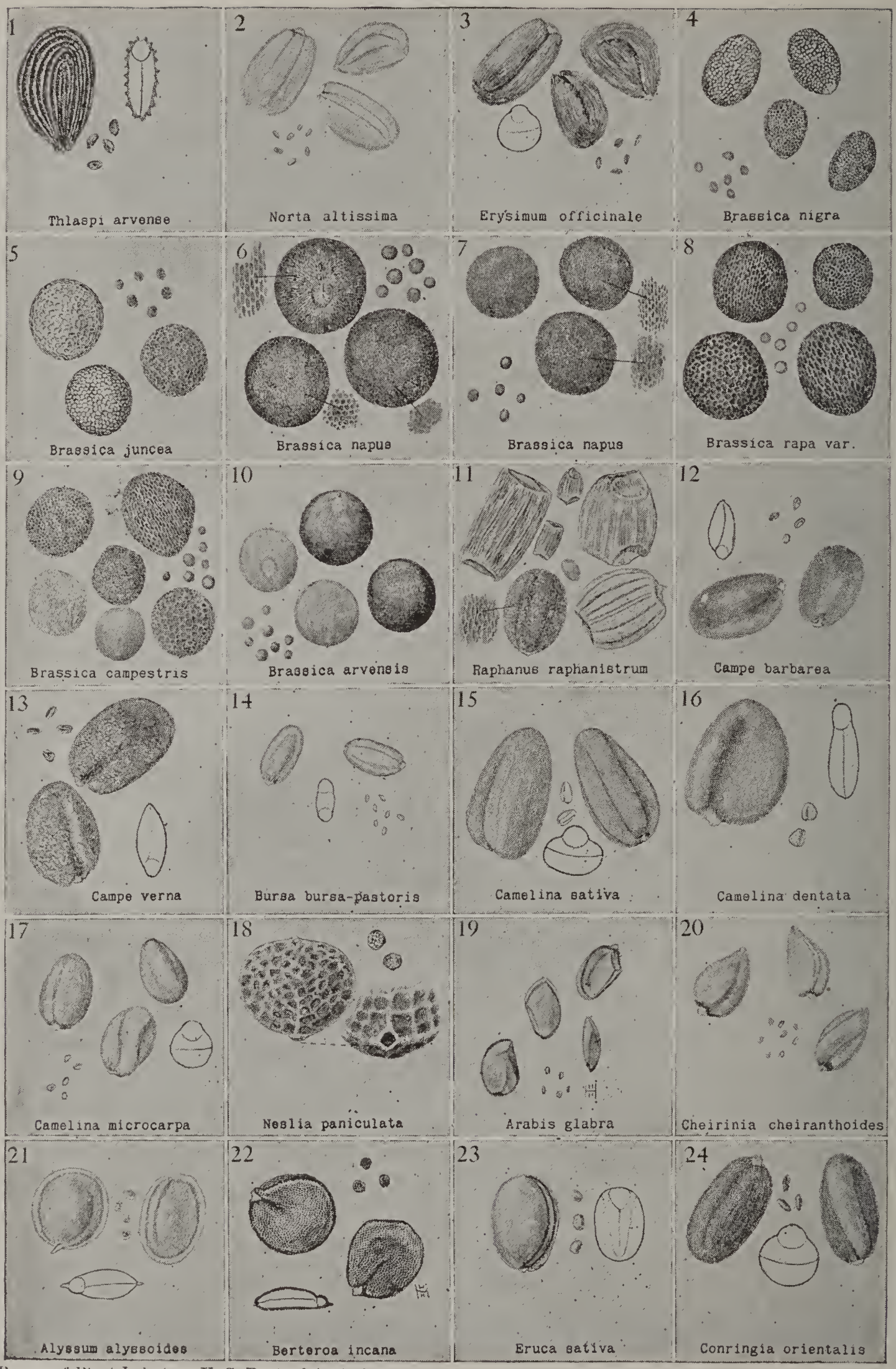
Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Chickweed. 2.—Little starwort. 3.—Big mouse-ear; or mouse-ear chickweed. 4.—Thymeleaf sandwort. 5.—Corn spurry. 6.—Wingseed spurry. 7.—Knawel. 8.—Field larkspur. 9.—Tall buttercup. 10.—Creeping buttercup. 11.—Wartseed buttercup. 12.—Sticktight crowfoot. 13.—Meadowrue. 14.—Opium poppy. 15.—Longpod poppy. Corn poppy. 16.—Poppy. 17.—Poppy. 18.—Sea poppy. 19.—American peppergrass. 20.—Prairie peppergrass. 21.—Field peppergrass. 22.—Perennial peppergrass; or hoary cress. 23.—Lens peppergrass. 24.—Ballcress.

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PLATE 7



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Pennycress. 2.—Tumblemustard. 3.—Hedgemustard. 4.—Black mustard. 5.—India mustard. 6.—Winter rape. 7.—Oilseed rape. 8.—Turnip rape. 9.—Bird rape. 10.—Charlock 11.—Wild radish. 12.—Bitter wintercress. 13.—Early wintercress. 14.—Shepherds-purse. 15.—Bigseed false-flax. 16.—Flatseed false-flax. 17.—Littleseed false-flax. 18.—Ballmustard. 19.—Towermustard. 20.—Treacle-mustard. 21.—Pale alyssum. 22.—Hoary alyssum. 23.—Salad rocket. 24.—Hares-ear-mustard.

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PLATE 8



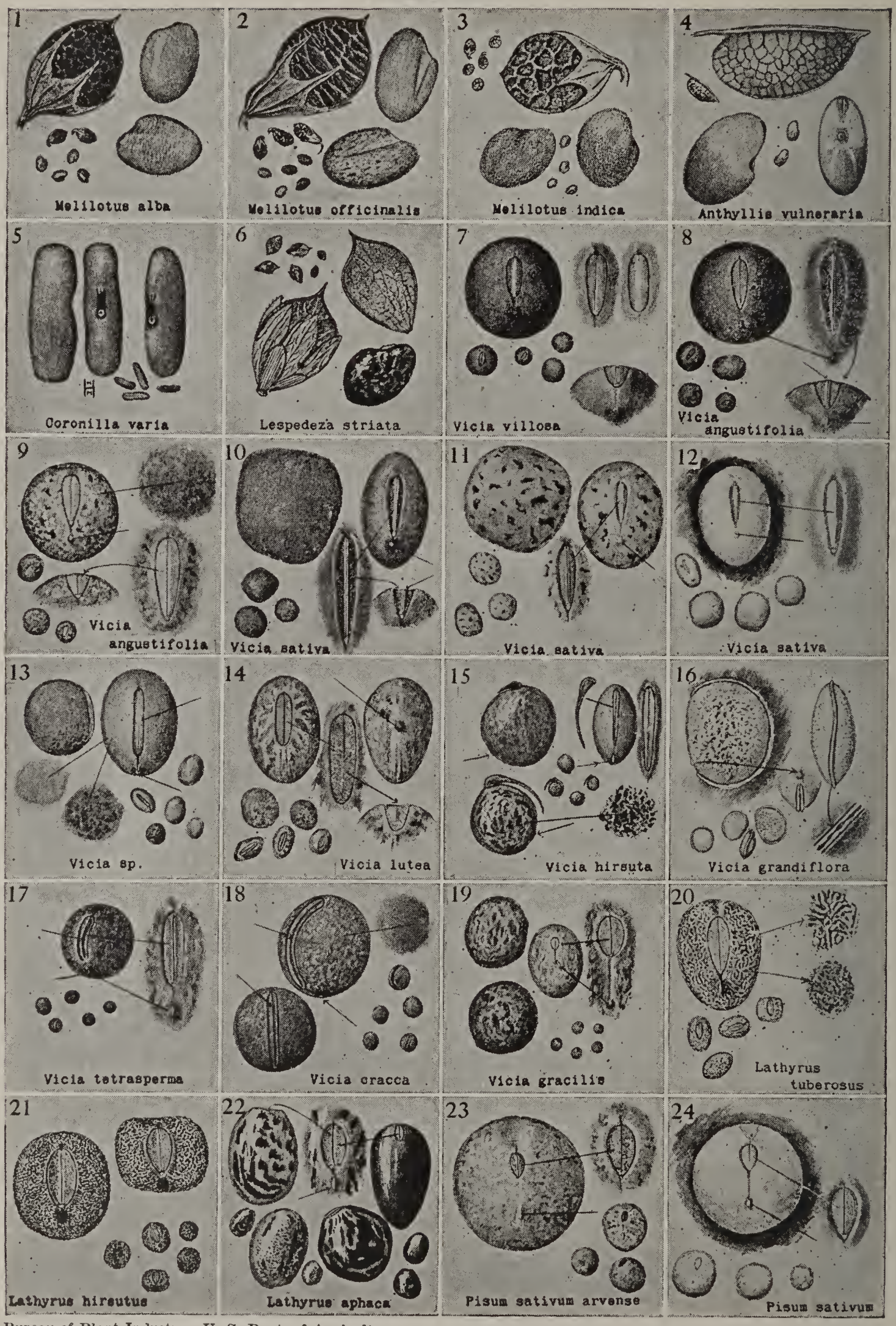
Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Base rocket. 2.—Blackberry. 3.—Strawberryweed. 4.—Oldfield cinquefoil. 5.—Little burnet. 6.—Burnet. 7.—Avens. 8.—Rose. 9.—Alfalfa. 10.—Black medick; or yellow trefoil. 11.—California bur clover. 12.—Spotted bur clover. 13.—White clover. 14.—Red clover. 15.—Alsike clover. 16.—Teasel clover. 17.—Crooked clover. 18.—Crimson clover. 19.—Rabbitfoot clover. 20.—Suckling clover. 21.—Mignonette clover. 22.—Hop clover. 23.—Birdsfoot trefoil. 24.—Deervetch.

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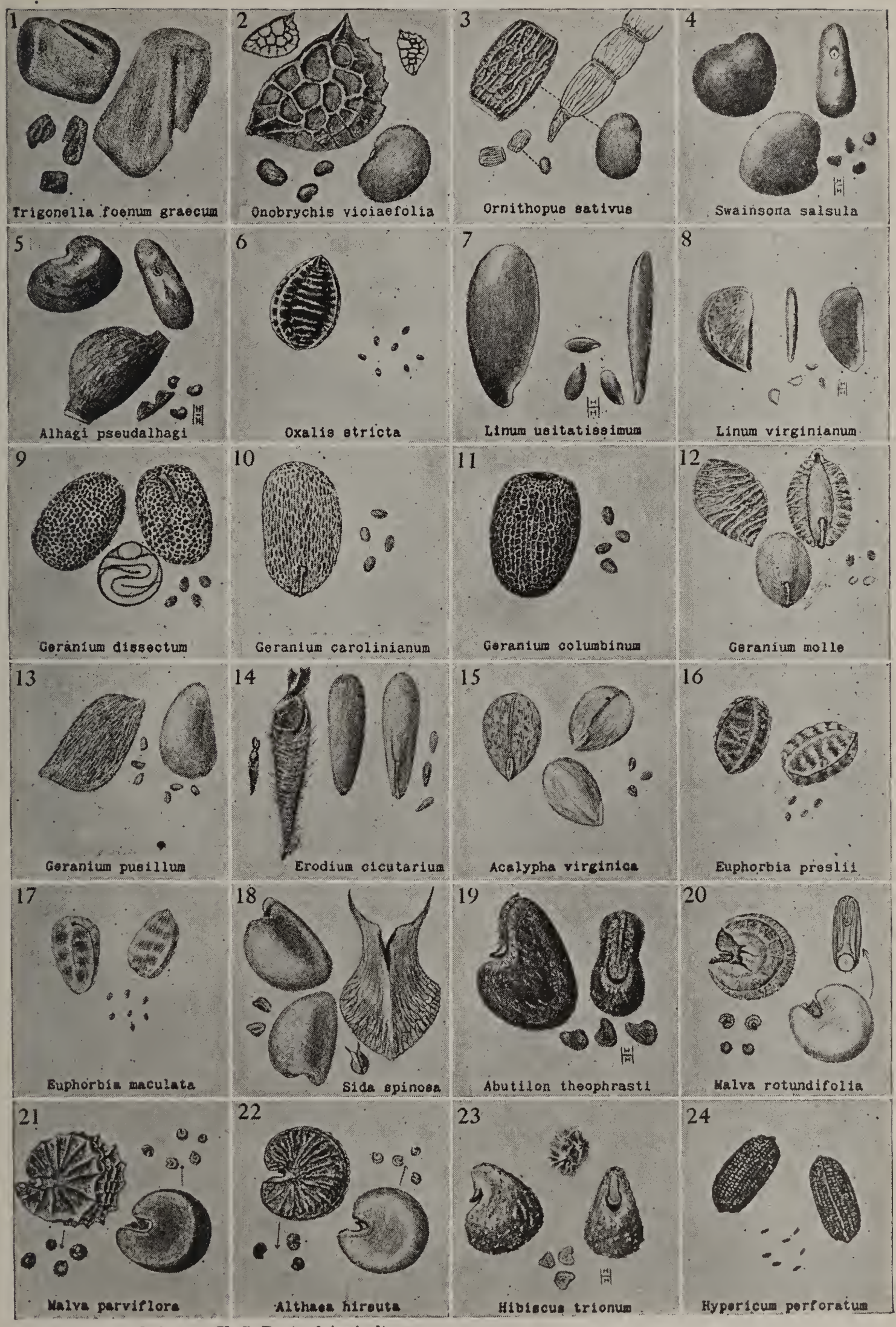
Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—White sweet clover. 2.—Yellow sweet clover; or biennial yellow sweet clover. 3.—Sour-clover; or annual yellow sweet clover. 4.—Kidneyvetch. 5.—Crownvetch. 6.—Common lespedeza. 7.—Hairy vetch. 8.—Narrowleaf vetch. 9.—Narrowleaf vetch. 10.—Common vetch. 11.—Common vetch. 12.—Pearl vetch. 13.—No common name. 14.—Yellow vetch. 15.—Tiny vetch. 16.—No common name. 17.—Fourseed vetch. 18.—Bird vetch. 19.—Slender vetch. 20.—Groundnut pea. 21.—Rough pea. 22.—Yellow pea. 23.—Field pea. 24.—Garden pea.

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PLATE 10



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Fenugreek. 2.—Sainfoin. 3.—Serradella. 4.—No common name. 5.—Camelthorn. 6.—Yellow oxalis. 7.—Flax. 8.—Woodland flax. 9.—Cutleaf cranesbill. 10.—Carolina cranesbill. 11.—Longstalk cranesbill. 12.—Dovefoot cranesbill. 13.—Small cranesbill. 14.—Alfileria. 15.—Three-seed; or three-seeded mercury. 16.—Nodding spurge. 17.—Spotted spurge. 18.—Spine-mallow. 19.—Velvetleaf. 20.—Running mallow; or cheeses. 21.—Little mallow. 22.—No common name. 23.—Flower-of-an-hour. 24.—St. Johnswort.

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PLATE 11



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Pansy. 2.—Hyssop loosestrife. 3.—Seedbox. 4.—Panicle willow-weed. 5.—Willow-weed. 6.—Evening primrose. 7.—Cutleaf evening primrose. 8.—Poison hemlock. 9.—No common name. 10.—Hedgeparsley. 11.—Wild carrot. 12.—Toothpick plant 13.—Wild chervil. 14.—Red pimpernel. 15.—Bindweed. 16.—Morning glory. 17.—Flax dodder. 18.—Clover dodder. 19.—Littleseed dodder. 20.—Field dodder. 21.—Chilean dodder. 22.—Bigseed dodder. 23.—European stickseed. 24.—Western stickseed.

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PLATE 12



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Forget-me-not. 2.—Field gromwell. 3.—Blueweed. 4.—Vervain. 5.—White vervain. 6.—Blue vervain. 7.—Hoary vervain. 8.—Ground bugle. 9.—American germander. 10.—White hoarhound. 11.—Catnp. 12.—American dragonhead. 13.—Selfheal. 14.—Hempnettle. 15.—Red hempnettle. 16.—Motherwort. 17.—Henbit. 18.—Field betony. 19.—Marsh betony. 20.—Clary. 21.—Lanceleaf sage. 22.—Pasture sage. 23.—Sage. 24.—American Pennyroyal.

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PLATE 13



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Basil-thyme. 2.—Mountain mint. 3.—American bugleweed. 4.—Field mint. 5.—Henbane. 6.—Black nightshade. 7.—Horsenettle. 8.—Buffalo bur. 9.—Flannel mullein. 10.—American figwort. 11.—Corn speedwell. 12.—Purslane speedwell. 13.—Field speedwell. 14.—Roundleaf toadflax. 15.—Eyebright. 16.—Blackseed plantain. 17.—Rippleseed plantain. 18.—Buckhorn plantain. 19.—Bottlebrush plantain. 20.—Paleseed plantain. 21.—Field houstonia. 22.—Rough buttonweed 23.—Catchweed. 24.—Fieldmadder.

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PLATE 14



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Toothed cornsalad. 2.—Cornsalad. 3.—Italian cornsalad. 4.—Wild teasel. 5.—Field scabiosa. 6.—Venus lookingglass. 7.—Indian tobacco. 8.—Chicory. 9.—Nipplewort. 10.—Lambsuccory. 11.—Spotted cats-ear. 12.—Fall dandelion. 13.—Rough hawkbit. 14.—Dandelion. 15.—Hawkweed picris. 16.—Oxtongue. 17.—Buckbeard. 18.—Prickly sowthistle. 19.—Common sowthistle. 20.—Perennial sowthistle. 21.—Prickly lettuce. 22.—Tall lettuce. 23.—Smooth hawksbeard. 24.—Orange hawkweed

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PLATE 15



Bureau of Plant Industry—U. S. Dept. of Agriculture

COMMON NAMES

1.—Sumpweed. 2.—Rough sumpweed. 3.—Bigleaf sumpweed. 4.—Common ragweed. 5.—Curlycup gumweed. 6.—Horseweed. 7.—Black-eyed susan. 8.—Common sunflower. 9.—Common yarrow. 10.—Mayweed. 11.—Field camomile. 12.—Oxeye daisy. 13.—False-camomile. 14.—Burnweed. 15.—Bull thistle. 16.—Canada thistle. 17.—Curly thistle. 18.—Cornflower. 19.—Brownscale knapweed. 20.—Star thistle. 21.—Malta star thistle. 22.—Yellow star thistle. 23.—Russian knapweed. 24.—Chilean tarweed.

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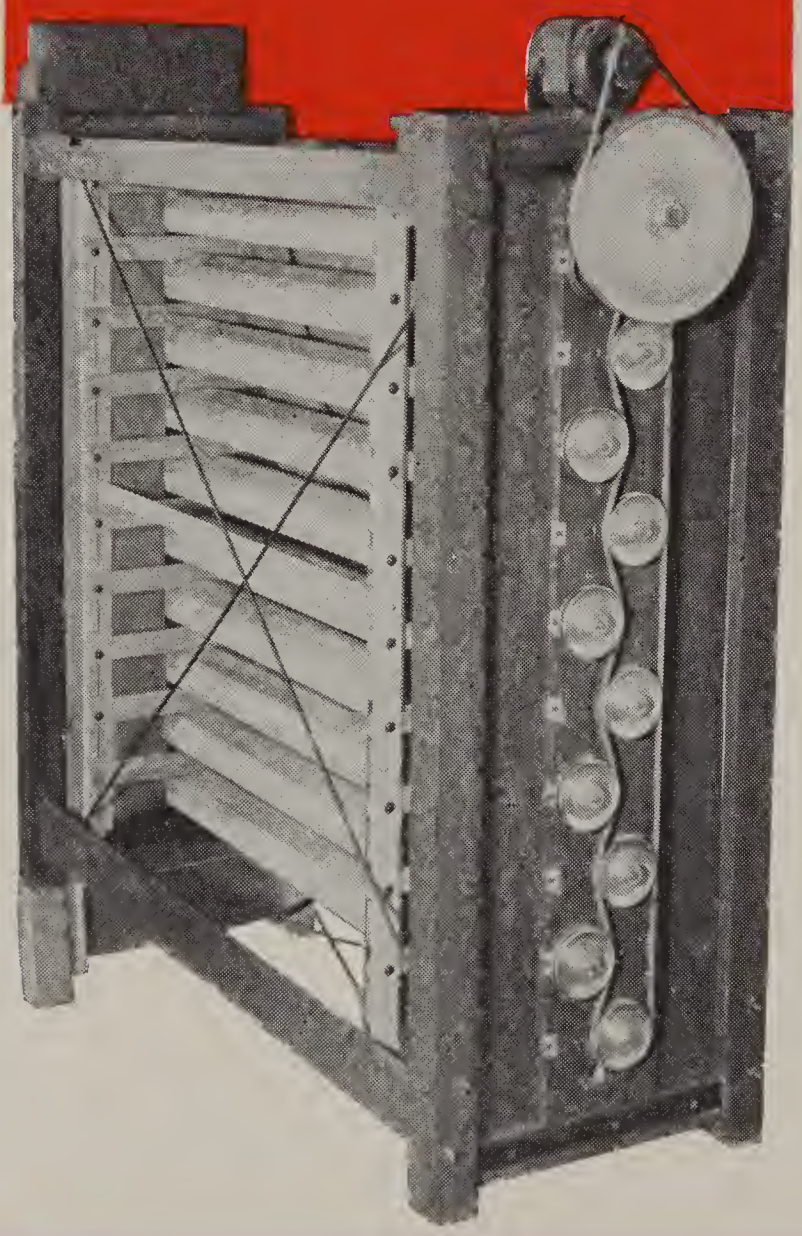
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Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds

(This Summary has been brought up-to-date (Dec., 1937) by Macy Spracher, Seed Analyst, Northrup, King & Co., Minneapolis, Minn.)

(Detailed field seed labeling requirements on page 150.)

	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
Alabama	5 Lb.—Tag same as field Seeds. No small packet regulations.	Within 24 hours after shipment, mail to Department of Agriculture a written notice or copy of invoice of each sale. Date of test not to be more than 180 days prior to date of sale. Hard seeds must not be included in germination but may be stated separately. Give net weight of bag on analysis tag.	No	None	50c	Seed Lab., Dept. of Agriculture, Montgomery, Ala.
Arkansas	May inspect and publish results.	Must obtain permit from State Board to ship alfalfa, lespedeza, clover (Trifolium) and vetch.	No	Application fee $1.00 plus 1 cent for each "Permit Tag".	Fee	Com. of Mines, Manufacture & Agriculture, Little Rock, Ark. Law enforcement: Seed Laboratory, State Plant Board, Fayetteville, Ark.
Arizona	Peas and Beans as field seeds.		No	None	Pur. 25c plus Germ. 25c	University of Arizona, College of Agriculture. Tucson, Ariz.
California	Field peas and beans as agricultural seeds. Flower, sugar beet and garden and vegetable seeds excluded.	Hard seeds must not be included in % germination. 7 point type minimum on label.	No	None	Pur. $1-$5.00 Germ. 50c-$1.00	Federal State Laboratory, State Office Bldg., Sacramento, Calif.
Colorado	Does not apply except to vine seeds. Must be tagged—name of seed, seller and where grown.	Hard seeds not to be included in % germination. Tolerance germination 10%; Purity 2%.	No	None		Colorado Seed Laboratory, Fort Collins, Colo.
Connecticut	Each separate container, labeled with kind and variety, % germination, year tested. Name and address of packeter.		No	None		Com. of Agriculture, % Conn. Agri. Expt. Station, New Haven, Conn.
Delaware	Canning house pea.		No	None	Pur. 25c, Germ. 25c	State Seed Laboratory, Dover, Del.
Florida	No seed law.					
Georgia	No seed law.					
Idaho	Does not apply.		No	None	Pur. 25c, Germ. 25c	Pure Seed Laboratory, Boise, Idaho.
Indiana	1 lb.—as field seeds.	Hard seeds not to be included in % germination.	No	Buy Indiana tags		Federal State Laboratory, Purdue Univ. Agri. Expt. Station, Lafayette, Ind.
Illinois	Does not apply.	Hard seed must not be included in % germination. Limit the use of terms "hybrid" and "certified".	No	None	Pur. 50c-$5.00, Germ. 50c	Division of Seed Investigations, Seed Lab.—Room 11, Centennial Bldg., Springfield, Ill.
Iowa	Does not apply.	Label not less than 8 point heavy gothic caps. Quantity in weight measure or count. Small packages exempt.	No	None		Iowa State Inspection Dept., Dept. Agri., Des Moines, Iowa. Seed Lab., Iowa State College, Ames, Iowa.
Kansas	Does not apply.	Hard seed must not be included in % germination, but must be listed on the tag.	No	None	Fees	Seed Laboratory, Manhattan, Kansas.

Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds—Continued

	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
Kentucky	1 lb.—as field seeds.		No	Buy Kentucky tags	Pur. $3.00, Germ. $1.00 Fee	Dept. of Entomology & Botany, Agri. College, Lexington. Ky.
Louisiana	Agricultural seed defined as "cultivated plants." See field seeds.			None		Seed Lab.—Box 951, Baton Rouge, La.
Maine	Does not apply.		No	None		Seed Lab., Agri. Expt. Sta., Orono, Maine.
Maryland	Does not apply.	Tag of original seller not to remain on bag over 3 months. Hard seeds and actual germination shall be stated separately but their "Total" may be given.	No	None	Pur. 50c-$5.00, Germ. 50c	Seed Laboratory, College Park., Md.
Massachusetts	10 lbs. or more as field seeds. Every lot—kind and variety of seed, also name and address of vendor.		No	None	Pur. 50c - $1.25 and up Germ. 30c-50c	Seed Laboratory, Agri. Expt. Station, Amhert, Mass.
Michigan	Each container—labeled with kind and variety. name and address of packeter, also % germination and date of test if % of germination is below the Mich. standard.	Use of term "Hybrid" restricted. Hard seeds must not be included in % germination. Permit adding hard seeds to actual germination as "Probable Live Seeds".	No	None		State Seed Laboratory, Dept. Agri., Lansing, Mich.
Minnesota	Sugar beets and mangels labeled as field seeds.	"Grimm Alfalfa" in lots of 30 lbs. or more must be sealed by state where grown. Label in not smaller than 8 pt. gothic caps.	No	None	Pur. 25c - $2.00 Germ. 25c.	Seed Laboratory, University Farm, St. Paul, Minn. Enforcement Dept. of Agriculture, State Office Bldg., St. Paul, Minn.
Mississippi	Each container labeled:—kind and variety, year grown, and name and address of packeter. Peas & Beans as field seeds.	Give net weight on tag with analysis. Date of germ. test not more than 180 days prior to date of sale.	No	Annual registration seedsman $1.00. each agent 25 cents.	Fee	Dept. of Agriculture, Jackson, Miss.
Missouri	Each container labeled:—number of permit, kind of variety, % germination and date tested if below Mo. standard, name and address of packeter.	Germination includes hard seeds. Also state hard seeds separately.	No	Annual permit $1.00.		Federal State Laboratory, Columbia, Mo. Enforcement State Board of Agriculture, Jefferson City, Mo.
Montana	Does not apply.	% of Hard Seeds and actual germination shall be stated separately but may be added together as "Total Live Seed".	No	None		State Grain and Seed Laboratory, Bozeman, Mont.
Nebraska	Does not apply.	Hard seeds may be included in % germination, if so stated. Every tag must have been approved by the Department of Agriculture and Inspection and have printed thereon "State of Nebraska Approved Official Label."	No	None	Pur. 50c - $2.00 Germ. 25c	Seed Laboratory, Dept., of Agriculture, Lincoln, Nebr.
Nevada	1 lb.—labeled as field seeds.	Name of each discernible disease and % seeds infested. Actual bushel weight of field seeds.	No	None		State Board of Stock Commissioners, Reno, Nevada.
New Hampshire	Turnips, rutabaga and mangels labeled as field seeds. Garden seed and flower seed in tied or sealed packets must be marked with year tested.		Mark year tested	None		Seed Laboratory, Agricultural Experiment Station, Durham, N. H. Enforcement Commissioner of Agriculture, Concord, N. H.
New Jersey	1 lb.—name, % germination, date tested. % of inert if over 5%.	Seed worthless as seed or for feed, or seed carrying over 1 noxious weed in every 5 grams is forfeited to state.	No	None		State Seed Laboratory, New Jersey Agricultural Expt. Station, New Brunswick, N. J.
New Mexico	Does not apply.	8 point heavy gothic caps for label.	No	None		Agri. Experiment Sta. State College. N. Mex.

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HASTINGS -:- NEBRASKA

"Be Satisfied" USE BRENT'S PREMIUM SEEDS

• *SINCE 1873*
BRENT'S PREMIUM SEEDS
KY. BLUE GRASS SEED AND ALL KINDS OF
FIELD SEEDS • GARDEN SEEDS • ONION SETS

THE C. S. BRENT SEED CO.
INCORPORATED
LEXINGTON KENTUCKY

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Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds—Continued

	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
New York	Each lot labeled % germination. Date of test, kind or variety, name and address of packeter.	Vegetable label not less than 10 point type.	Each container labeled with kind and variety of seed and name and address of packeter, May Test	None		State Seed Lab., Ag. Exp. Sta., Geneva, N.Y. Enforcement Comm. of Agri., Albany, N. Y.
North Carolina	Must be true to variety as named. Each package must show exact nature of its contents.	Commissioner of Agriculture may remove poor seed even if correctly labeled.		Annual license $25.00 wholesaler, $10.00 retailer. 10 lb. retailed to farmer must have tag purchased from Comm. of Agri.	Pur. 25c, Germ. 25c	Seed Laboratory, Department of Agriculture, Raleigh, N. Car,
North Dakota	Does not apply to less than 5 lbs.		Over 5 lbs.	None	Pur. $1.50, Germ. $1.00	Seed Laboratory, Agricultural Experiment Station, College Station, Fargo, N. Dak.
Ohio	1 lb. or more, and less than 1 lb. (if germination is less than Ohio standard), shall be labeled as to germination and date tested. Less than 1 lb., if equal or above Ohio standard, does not require germination label. Packet seeds prohibited if germination is below Ohio standard.	Do not allow variation over 10% in germination. Hard seeds must not be included in % of germination nor added to germination as total germination, total viable or live seeds. Use of terms "Certified Seeds" and "Hybrid Corn" defined and limited.	No	25 cent tax stamp or, $2.50 or $5.00 annually for each separate place of business.	Fee	State Seed Laboratory, Department of Agriculture, Columbus, Ohio.
Oklahoma	Any vegetable grown in Oklahoma on field scale considered as agriculture seed—label as field seeds.	Quarantine Regulation. Every consignment must be labeled according to the law and be accompanied by a waybill (invoice).	No	None	Pur. and Germ. 50c, Singly 30c	State Seed Laboratory, State Board of Agriculture, Oklahoma City, Okla.
Oregon	Each container of large seeds 5 lbs. or over, and small seeds ½ lb. or over; shall be labeled (1) % germination and date or "Oregon Standard Germination" if the germination is equal to or above the established Ore. standard. (2) The kind and number per lb. of any noxious weeds.	%, hard seeds shall be given on tag, when present.	1 lb.	$2.50 per year.	Purity 85c to $5.00, Germ. 50c to $1.00	Federal State Laboratory, Agricultural Experiment Station, Corvallis, Ore.
Pennsylvania	Vegetable Seed defined in law but excluded from labeling.		No	None	Pur. 25c, Germ. 25c	State Laboratory, Bureau of Plant Industry, Department of Agriculture, Harrisburg, Pa.
Rhode Island	Every lot—kind of seed and variety. Name and address of vendor.			None	Pur. 50c-$1.25, Germ. 30c-50c	Bureau of Markets, Providence, R. I.
South Carolina	Does not apply.			$1-$5 license. $25 per annum regular seed business.		Seed Laboratory, Department of Agriculture, Columbia, S. Car.
South Dakota	Does not apply to less than 5 lbs.		Does not apply to less than 5 lbs.	None	Purity $1.50. Germ. $1.00	Seed Laboratory, Agricultural Experiment Station, Brookings, S. Dak.
Tennessee	Does not apply.	Prohibit if below their minimum standard.	No	Inspection Tax stamps 2c per bu.		Seed Laboratory, Department of Agriculture, Nashville, Tenn.

H.C. KING & SONS INC.
Battle Creek Michigan

MICHIGAN GROWN
RED CLOVER · · · · · ROSEN RYE
MAMMOTH CLOVER · WINTER VETCH
Car Lots or Less

JAS. S. WILSON & SONS, Paris, Ky.
Kentucky Blue Grass Seed Exclusively
Kentucky and Missouri Grown

After forty years' experience we are able to give the best of service. Cleaning and handling facilities unexcelled.

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BROME CRESTED WHEAT GRASS
Standard and Fairway Strain

Slender Wheat Grass
Early Fortune Millet
Sweet Clover Seed
Canadian Alfalfa

VALKER-CHRISTENSEN CO., Minot, N. Dakota.

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FARM and GRASS SEEDS
THE J. M. McCULLOUGH'S SONS CO.
SEEDS
328-30-32 East Front Street
CINCINNATI, OHIO

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Summary of Requirements in Various State Seed Laws for the Labeling of Garden and Field Seeds—Continued

	Vegetable Seeds	Special Requirements or Regulations for Both Field and Garden Seeds	Flower Seeds	License or Tax	Test Fee for Out-of-State Individuals	Address—Laboratory
Texas	Applies only to onion and spinach. Label as field seeds.	Correct weight. Vendor must file with Commissioner of Agriculture a certified copy of information requested on the lot offered for sale.	No	Buy tags 10-150 lbs. 1c; 150-200 lbs. 2c.	Pur. 25c, Germ. 25c	State Seed Laboratory, Department of Agriculture, Austin, Texas.
Utah	Included as "Agriculture Seeds." Label as field seeds.	All agri. and vegetable seeds must bear a certificate of complete absence of noxious weeds group II. Seeds in small packages or from bulk in small amounts may be exempt provided container of packages or seed is labeled.	No	None		State Seed Laboratory, State Board of Agriculture, Salt Lake City, Utah.
Vermont	Does not apply.	No license fee for mixed or unmixed seeds used solely for lawn and golf courses.	No	$5.00 for each brand, each year.		Seed Laboratory, State Board of Agriculture, Burlington, Vt.
Virginia	Every separate container marked "Packed for (year)". % germination if below standard.	Hard seeds must not be included in % germination but it is permissible to put % "Hard Seeds" on tag and add to germ. % as "Total". Label "mixed" as "mixed cowpeas" if 10% of another variety or varieties present. Label kind only as "cowpeas" 5% or less than 10% of another variety or varieties present. Label as a single variety if less than 5% of another variety or varieties present. Use of term "certified" limited to U.S.D.A. or the various State Dept. of Agri.	No	None		Seed Laboratory, State Board of Agriculture, Richmond, Va.
Washington	Prohibit sale if less than ⅔ standard. Must be true to variety as labeled.	Prohibit sale of insect infested seed—weevil, chalcifly, etc. Prohibit any sale any seed except medical herbs and flowers if less than 60% germination.	No	$10.00 per year for each separate place of business except merchants selling only packets 8 oz. or less sealed by licensed seedsman.		Seed Laboratory, Agricultural Experiment Station, Pullman, Wash. Enforcement Department of Agriculture, Olympia, Wash.
West Virginia	Included as "Agriculture Seeds." Label as field seeds.		No	$5.00 registration certificate for each variety of agriculture or vegetable seed.		Seed Laboratory, Department of Agriculture, Charleston, W. Va.
Wisconsin	Every lot. % germination if 5% below standard.	Hard seed % must be stated separately but may be added to germination as "Total Live Seeds". "Grimm Alfalfa" can be sold only in containers sealed by agents of state where grown.	No	None	25c, Singly 15c Pur. and Germ.	Seed Laboratory, Department of Agriculture, Agronomy Bldg., Madison, Wis.
Wyoming	1 lb. or over. Included as "Agriculture Seed." Label as field seeds.		No	Buy tags 1 cent each.	25c each sample	State Department of Agri., Cheyenne.

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Importers KELLY'S SEEDS GROW **Exporters**

GROWERS AND IMPORTERS OF FIELD AND GARDEN SEEDS
1000 Acres Grown at San Jose, Illinois (25 miles south of Peoria)
SEED CORN, SOY BEANS, CLOVERS, TIMOTHY AND ALFALFA
OUR SPECIALTIES
Also Specialize in Importing Holland and Japanese Rape Seed for the Wholesale Trade
Write us for prices

KELLY SEED COMPANY PEORIA, ILLINOIS SAN JOSE, ILLINOIS

DAKOTA IMPROVED SEED CO.

Disco SEEDS

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ALFALFA • SOY BEANS
TIMOTHY • BROME GRASS
CLOVERS • MILLETS
HYBRID SEED CORN
CRESTED, SLENDER & WESTERN WHEAT GRASS

Specializing in
U. S. VERIFIED ALFALFA, SOUTH DAKOTA AND NORTHERN IOWA GROWN SEEDS

FARM SEEDS

Feed Millets
Seed Screenings

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Best of Warehousing facilities available for the storing and distribution of seed stocks.

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Cable Address, "Scarlett, Baltimoremd"
GRASS & FIELD SEEDS
BIRD SEEDS LAWN SEEDS

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Field Seeds, Mixed Field Seeds and Lawn Grass or Special Mixtures

Key to Symbols and Abbreviations on page 155

	FIELD SEEDS Label Requirements									MIXED FIELD SEEDS (Sometimes limited to 2 kinds) Label Requirements								LAWN GRASS MIXTURE OR SPECIAL MIXTURE Label Requirements								
Date of Last Amendment or Regulation	Weight to be Labeled	% Pure Seed	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Year Grown	Noxious Weeds (See Page 156)	Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)	Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)
Alabama 1935	5 lbs.	X	X	..	..	X	X	..	N. Lb. A. (P. twice this allowance.)	5 lbs.	X	X	X	..	..	X	X	N. Lb. B. (P. twice this allowance.)	8 oz.	X	..	X	X	..	..	X	N. Lb. B. (P. twice this allowance.)
Arizona 1921	10 lbs.	X	X	..	..	X	X	..	N. A. (P. certain weeds.)	2 lbs.	X	X	X	..	..	X	..	N. B. (P. certain weeds.)	See mixed field seeds.								
Arkansas 1937	10 lbs.	X	X	..	..	X	X	X	N. Oz. or Lb. A. (P. b.)	10 lbs.	X	X	X	X	..	X	..	N. B. (P. b.)		X	X	X	X	..	..	..	N. B.
California 1933	5 lbs.	X	X	..	..	X	..	..	N. Lb. A. Primary noxious. N. secondary noxious.	5 lbs.	X	X	X	..	..	X	..	N. Lb. B. primary noxious. N. secondary noxious.	8 oz.	X	..	X	X	..	..	..	N. B. N. Lb. B. primary noxious. N. secondary.
Colorado 1927	5 lbs.	X	..	..	..	X	X	..	N. Lb. 1-5 gms.	As field seeds									As field seeds.								
Connecticut 1937	Every Lot	X	X	..	..	X	..	..	N. Oz. A.	Every Lot	X	X	X	..	..	X	..	N. Oz. B.	Every Lot	X	X	X	X	..	..	..	N. Oz. B.
Delaware 1929	10 lbs.	X	..	..	..	X	..	..	N. Oz. A.	Exempt except noxious weed sections of law.									Exempt except noxious weed sections of law.								
Florida	No seed law.																										
Georgia	No seed law.																										
Idaho 1931	5 lbs.	X	..	..	..	X	X	X	N. Lb. (P. 1-10,000 seeds.)										Every Lot	X	..	..	X	..	X	..	Name and number Lbs. (P. 1 in 10,000 seeds.)
Illinois 1937	Every Lot	X	X	..	..	X	X*	..	N. Oz. A. I—P. over 1-50 gms. II—P 1-1000 seeds A (1) (2). P 1-500 seeds A (3).	Every Lot	X	X	X	..	..	X	..	N. Oz. 1-5 gms. (P. as in field seeds.)	Every Lot	X	X	X P2%	X	..	..	..	(P. as in field seeds.)
Indiana 1921	1 lb.	X	..	..	..	X	X	..	N. Lb.	1 lb.	X	X	..	..	..	X	..	N. Lb.	Same as mixed field seeds.								
Iowa 1934	Every Lot	X	X	..	..	X	X	X	Name each. (Primary noxious P. 1-5, 25, 100 gms.)	10 lbs.	X	X	X	..	..	X	Yr.	N. B. (P. as in field seeds.)	8 oz.	X	X	X	X	..	..	..	N. B. (P. as in field seeds.)

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U.S. SEED CO.
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Garden Seeds, Sweet Corn Peas and Beans

which are produced in localities best adapted to their fullest development

We handle Garden Seeds Exclusively and are direct Growers of Idaho Seed Beans. Special prices quoted upon request.

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RED CLOVER
ALFALFA
CRIMSON CLOVER
SPRING VETCH
POA TRIVIALIS
RYE GRASSES
WHITE CLOVER
HAIRY VETCH
BIRD RAPE
CHEWINGS FESCUE
ORCHARD GRASS

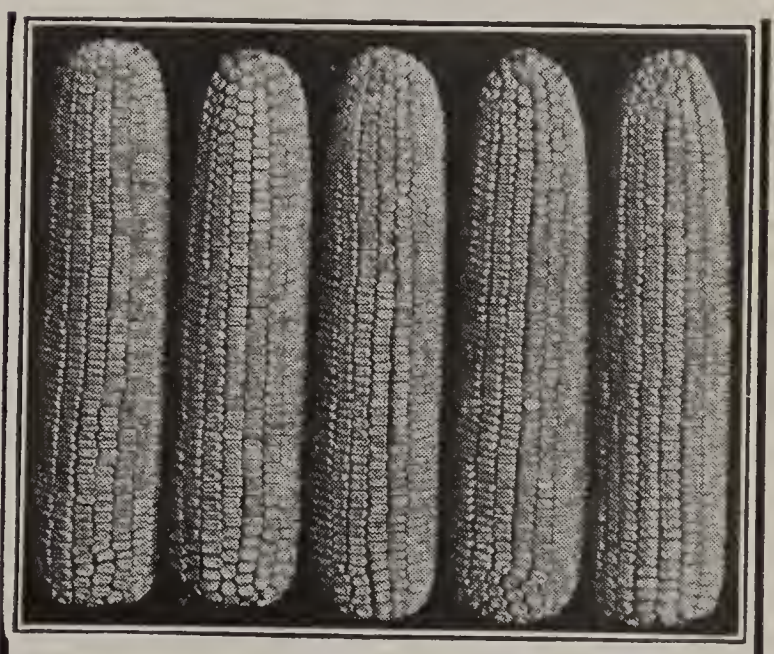
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for SEED
IN BULK OR
SACKED
CARLOADS

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CHAMBER OF COMMERCE BLDG.
MINNEAPOLIS, MINNESOTA



WOOD'S SEED CORN
Hand Tipped and Butted
All Standard Varieties
Field, Ensilage, Garden
HYBRID FIELD CORNS
For Every Climate



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Field Seeds, Mixed Field Seeds and Lawn Grass or Special Mixtures (Continued)

Date of Last Amendment or Regulation	FIELD SEEDS Label Requirements: Weight to be Labeled	% Pure Seed	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Year Grown	Noxious Weeds (See Page 156)	MIXED FIELD SEEDS (Sometimes limited to 2 kinds) Label Requirements: Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)	LAWN GRASS MIXTURE OR SPECIAL MIXTURE Label Requirements: Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)
Kansas 1935	Every Lot	X	X	X	..	X**	X	..	N. Lb. if over 1/10 of 1% give % by number of each. (P. certain weeds.)	Every Lot	X	X	X	X	..	X	X	As for unmixed field seeds.)	Same as mixed field seeds.								
Kentucky 1932	1 lb.	X	X	..	..	X	X	..	N. Oz.	1 lb.	X	X	X	..	..	X	X	N. Oz.	1 lb.	X	..	X	X	..	..	..	N. Oz. (5 lbs. or less exempt from nox. weed sections.)
Louisiana 1934	10 lbs.	X	X	..	..	X	X	X	N. Oz. A.	10 lbs	X	X	X	..	..	X	X Yr.	N. Oz. B.	8 oz.	X	..	X	X	..	..	X	N. Oz. B.
Maine 1919	Every Lot	X	..	..	..	X	..	..	N. Lb.																		
Maryland 1927	10 lbs.	X	X	..	..	X	..	..	N. A.	10 lbs	X	X	X	..	..	X	..	N. B.	8 oz.	X	..	X	X	..	..	..	N. B.
Massachusetts 1927	10 lbs	X	X	..	..	X	..	..	N. Oz. A.	10 lbs	X	X	X	..	..	X	..	N. Oz. B.	Every Lot	X	..	X	X	..	..	..	N. Oz. B.
Michigan 1937	1 lb.	X	X	X	X	X	X	..	N. A.	1 lb.	X	X	X	X	X	X	X	N. Lb.	8 oz.	X	X	X	X	X	X	..	N. Lb.
Minnesota 1934	1 lb.	X	X P2%	..	..	X	X	..	N. Lb. if between 10-90 per lb. Under 10 per lb. called "trace." (P. 90 per lb.)	1 lb.	X	X	X P2%	..	..	X	X	As for unmixed field seeds.)	8 oz.	X	X	X P2%	X	..	X	..	As field seeds except that for lawn mixtures the number is not required.
Mississippi 1937	5 lbs.	X	X	..	..	X	..	..	N. Oz. A.		X	X	X	..	..	X	..	N. Oz. B.	As mixed field seeds.								

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Missouri 1937	1 lb.	X	X	..	..	X**	X	..	N. A. and number group I, P. anv group II.	1 lb.	X	X	X	X	..	X	..	Name and number												
Montana 1937	1 lb.	X	X	X	X	X**	X	..	N. Oz. A.	1 lb.	X	X	X	X	X	X	..	N. Oz. B.		As mixed field seeds.										
Nebraska 1937	10 lbs.	X	X	..	..	X	X	..	N. Oz. A. I., P. II	10 lbs.	X	X	X	..	..	X	X	N. Oz. B. (P. as in field seeds.)	4 oz.	X	..	X	X	..	..	X	N. Oz. B.—P as in field seeds.			
Nevada 1929	1 lb.	.. X	X X	X X	X ..	X X	(Law) (reg.)	..	N. A.	1 lb.	X	X	X	X	..	X	..	N. B.	1 lb.	X	X	X	X	..	X	..	N. B.			
New Hampshire 1921	1 lb.	X	..	..	..	X	..	..	None																					
New Jersey 1931	10 lbs.	X	..	..	..	X	..	..	N. Lb. 1 in 5 gms.	Every Lot	X	..	X	X	..	..	..	N. Lb. 1-5 gms.		As mixed field seeds.										
New Mexico 1919	1 lb.	..	X	X	X	X	X	..	% by weight of each.																					
New York 1936	Every Lot	X	X	..	..	X	..	..	N. Lb. A.	Every Lot	X	X	X	..	..	X	..	N. Lb. B.	Every Lot	X	X	X	X	..	X	..	N. Lb. B.			
North Carolina 1937	Every Lot	X	X	..	X	X	X	..	% each.	Every Lot	X	..	X	X	X	..	..			See mixed field seeds.										
North Dakota 1931	Every Lot	X	X	..	..	X	X*	..	N. Lb. Aa.	Every Lot	X	X	X	..	..	X	X*	N. Lb. B.	Every Lot	X	..	X	X	..	..	X*	N. Lb. B.			
Ohio 1937	Every Lot	X	X	..	..	X	X*	..	N. Oz. A. P3%.	Every Lot	X	X	X P.3%	P.15%		X	..	N. Oz. B.		See mixed field seeds.										
Oklahoma 1929	Every Lot	X	X	..	..	X	X	..	N. A.	Every Lot	X	X	X	X	..	X	X	N. B.		See mixed field seeds.										
Oregon 1937	Each Lot	X	X	X	X	X**	X	..	N. Lb. groups II, III and IV. P. group I. P. group II 1-50 gms. or 1-25 gms.	Each Lot	X	X	X	X	..	X	..	As in field seeds.		See mixed field seeds.										
Pennsylvania 1921	10 lbs.	X	X P3%	..	..	X	X*	..	N. Oz. A. (P. Dodder & Canada Thistle 1 in 5 gms.)	10 lbs.	X	X	X P3%	..	..	X	X*	N. Oz. B. (P. as in field seeds.)	8 oz.	X	..	X	X	..	..	X*	N. Oz. B. (P. as field seeds.)			
Rhode Island 1929	Every Lot	X	X	..	..	X	..	..	N. Oz. A.	Every Lot	X	X	X	..	..	X	..	N. Oz. B.	Every Lot	X	..	X	X	..	..	..	N. Oz. B.			
South Carolina 1922	1 lb.	X	If 2%	If below St.	..	X	X	..	N. if less than 20 in 1,000 seeds, (P. if over.)											Exempt until regulations are made by Dep't of Agriculture.										

Field Seeds, Mixed Field Seeds and Lawn Grass or Special Mixtures (Continued)

	FIELD SEEDS Label Requirements										MIXED FIELD SEEDS (Sometimes limited to 2 kinds) Label Requirements									LAWN GRASS MIXTURE OR SPECIAL MIXTURE Label Requirements								
Date of Last Amendment or Regulation	Weight to be Labeled	% Pure Seed	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Year Grown	Noxious Weeds (See Page 156)	Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)	Weight to be Labeled	Name Each Over 5%	% Each Over 5%	% Weed Seeds	% Inert Matter	% Other Crop Seeds	% Germ. & Date Tested	Where Grown	Noxious Weeds (See Page 156)
South Dakota 1935	Every Lot	X	X			X	X*	..	N. Oz. or Lb.	Every Lot	X	X	X	..	..	X	X*	N. Oz. or Lb.	Every Lot	X	..	X	X	..	..	X*	N. Lb.
Tennessee 1925	½ bu.	May label "Standard." If below standard label.							Name. (P. 1 in 5 gms.) (P. any Onion and Johnson grass.)	½ bu.	X	X	Otherwise as field seeds.							Mixtures for lawn or pasture exempt except from weed sections of law.							
Texas 1931	10 lbs.	X	X	X	X	X	X	X*	N. A.	10 lbs	X	..	X	X	..	X	..	N. A.		See mixed field seeds.							
Utah 1933	Every Lot	X	X P1%	..	..	X	X	..	N. Group I Lb. (P. Group II.)	Every Lot	X	X	X P1%	..	..	X	X	N. Group I Lb. (P. Group II.)	Every Lot	X	..	X P1%	X	..	..	X*	N. Group I Lb. (P. Group II.)
Vermont 1926	10 lbs.	X	X	..	..	X	X*	..	N. Oz. A.	Every Lot	X	X	X	..	..	X	X*	N. Oz. A.	Every Lot	X	X	X	..	..	X	X*	N. Oz. A.
Virginia 1936	10 lbs.	X	X P3%	..	..	X	X*	..	N. Oz. (P. Dodder 2 in 5 gms.)	Every Lot	X 5%	X	X P3%	X	..	X 5%		N. Oz. (P. Dodder 2 in 5 gms.)	Every Lot	X	..	X P3%	X	..	X	..	N. Oz. (P. Dodder 2 in 5 gms.)
Washington 1937	1 lb.	X	If 2%	If ½%	..	X	..	..	(a) P. Any (b) P. 5 per lb. (c) P. 15 per lb. (d) P. 90 per lb.	1 lb.	X 2%	X	If Over 1%	X	..	..	..	As in field seed.		See mixed field seeds.							
West Virginia 1926	Every Lot	X	X P3%	..	..	X	..	..	N. Oz. A. (P. certain weeds if over 1 in 5 gms.)	Every Lot	X	X	X P3%	..	..	X	..	N. Oz. B. (P. as in field seeds.)	Every Lot	X	X	X P3%	..	..	..	..	N. Oz. B. (P. as in field seeds.)
Wisconsin 1931	1 lb.	X	If Over 2%	If Over 2%	..	X	X*	..	P. 1 in 3,000 seeds, P. Buckhorn 1 in 1,000 seeds, name if fewer.	1 lb.	X	X	Otherwise as unmixed field seeds.							Exempt except from weed sections of law.							
Wyoming 1937	1 lb.	X	..	..	..	X	X	..	P.	1 lb.	X	Otherwise as unmixed field seeds.						P.	1 lb.	As mixed field seeds.							

Key to Symbols and Abbreviations Used in Summary of State Seed Laws

P.—Prohibited.

N.—Name.

X.—Required on Seed Label.

Oz.—Give the approximate number per oz.

Lb.—Give the approximate number per lb.

A.—Name the noxious weeds which are present singly or collectively as follows:

(1) In excess of one seed in each 5 grams of timothy, redtop, Kentucky or Canada bluegrass, fescues, brome grass, rye grasses, clovers, alfalfa, etc.

(2) One in 25 grams of millets, rape, flax, sudan.

(3) One in 100 grams of wheat, oats, rye, barley, buckwheat, vetches and other seeds as large or larger.

Aa.—In North Dakota (1) In excess of one seed in 20 grams.

(2) In excess of one seed in 50 grams.

(3) In excess of one seed in 100 grams.

B.—Name the noxious weeds which are present singly or collectively in excess of one in 15 grams.

*—Illinois where grown stated only on corn.

N. Dakota where grown stated only on corn (giving county as well as state) and alfalfa and clovers.

S. Dakota where grown stated only on corn (giving county as well as state) and alfalfa and clovers.

Ohio where grown only for alfalfa and red clover.

Pennsylvania where grown stated only on Turkestan and Italian alfalfa and Chilean and Italian red clover.

Texas—year in which grown stated only on onion and spinach.

Vermont where grown only on imported alfalfa, red clover and orchard grass.

Virginia where grown only on Turkestan and Italian alfalfa and Italian Chilean red clover.

Wisconsin where grown only on cereal grains, corn, and alfalfa.

This tabulation includes only such label requirements as may vary in the different states.

It is presumed that every label will state the full name and address of the vendor and the commonly accepted name of the seed, also if the seed is a mixture, that it shall be labeled a mixture.

For noxious weeds in various states see page 156.

**.—State % of Hard Seeds when present.

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is the main objective of Seed World. Our service department is always ready to help you find new sources of supply, answer your legal questions or do whatever possible to make it easier for you to operate your business more profitably. Just write SEED WORLD, SERVICE DEPT., Chicago, Ill.

NOXIOUS WEED SEEDS

PRACTICALLY all of the State Seed Laws name some noxious weed seeds. The sale of agricultural seed containing any of the noxious weed seeds is prohibited in some of the states. Most states, however, allow a very small percentage to be present. Regulations vary in the different states. A complete summary of all state seed laws may be found on page 143.

Alabama.....	Wild Onion, Bermuda Grass, Quack Grass, Dodder, Johnson Grass, Nut Grass, Canada Thistle, Corn Cockle.
Arizona.....	Dodders, Russian Thistle, Johnson Grass, Bermuda Grass, Florida Nut Grass, Wild Mustard, Careless Weed, Wild Oats, Lamb's Quarter, Wild Barley, Rag Weed, Burr Grasses. Prohibit Johnson Grass, Canada Thistle, Russian Thistle, Scotch Thistle, Bull Thistle, Cocklebur, and Burdock. (Nox. weed law of 1913.)
Arkansas.....	(a) Dodders, Buckhorn, Plantains, Sorrels, Docks, Cheat, Red Rice, Wild Carrot, Wild Onion or Wild Garlic, Nut Grass, Johnson Grass, Corn Cockle. (b) Prohibit 1000 Dodder per lb., 5 Johnson Grass, Wild Onion or Wild Garlic per lb., 250 Chess or Cheat per lb.
California.....	Primary Noxious: Johnson Grass, Camel's Thorn, Hoary Cress, Morning Glory (Convolvulus arvensis), Canada Thistle, Russian Knapweed. Secondary Noxious. Yellow Star Thistle, Goat Grass, Coast Dandelion, Russian Thistle, Silver-leaf Nightshade, Creeping Sow Thistle, Klamath Weed, Nut Grass, White or Creeping Mallow, Dodder, Puncture Vine, Poverty Weed.
Colorado.....	Dodders, Wild Oats, Plantains, Bindweed, Poverty Weed, Crab Grass, Cheat, Canada Thistle, Cockle, Sow Thistle, Wild Barley, Hopclover, Mustards.
Connecticut....	Quack Grass, Canada Thistle, Plantain, Hawkweed, Dodder, Curled Dock, Mustards.
Delaware.....	Quack Grass, Canada Thistle, Dodders, Wild Mustard, Wild Oats, Orange Hawkweed.
Idaho.....	Wild Mustards, Quack Grass, Canada Thistle, Wild Oats, Dodders, Corn Cockle, Plantains, Perennial Sow Thistle, French Weed, Hoary Cress, Wild Morning Glory, Spurge, Puncture Vine, Yellow Toadflax, Russian Knapweed.
Illinois.....	I European Bindweed, Perennial Sow Thistle, Canada Thistle. II Quack Grass, Dodder, Mustards, Wild Carrot, Buckhorn, Curly Dock, Ox-eye Daisy, Bull Nettle, Wild Garlic, Johnson Grass.
Indiana.....	Buckhorn, Bracted Plantain, Canada Thistle, Chicory, Common Plantain, Corn Cockle, Curled Dock, Dodder, Horse Nettle, Wild Mustard, Ox-eye Daisy, Prickly Lettuce, Quack Grass, Red Sorrel, White Top, Wild Carrot, Wild Onion, Yellow Trefoil. (New list in effect Sept. 15, 1938).
Iowa.....	Primary Noxious: Quack Grass, Canada Thistle, Perennial Sow Thistle, Perennial Pepper Grass, European Morning Glory, Horse Nettle, Leafy Spurge, Russian Knapweed, Buckhorn. Secondary Noxious: Wild Carrot, Sour Dock, Smooth Dock, Sheep Sorrel, Wild Oats, Wild Mustard, Indian Mustard, Black Mustard, Dodders.
Kansas.....	Canada Thistle, Corn Cockle, Buckhorn, Mustards, Frenchweed, Quack Grass, Wild Onion, Docks, Wild Oats, Bull Nettle, Wild Carrot, Chess or Cheat, Morning Glory, Ox-eye Daisy and Hoary Cress. Prohibit 1-5 grams Dodder and Johnson Grass. Prohibit Field Bindweed. (Convolvulus Arvensis.)
Kentucky.....	Quack Grass, Dodders, Sorrel, Buckhorn, Corn Cockle, Wild Onion, Canada Thistle.
Louisiana.....	Johnson Grass, Tie Vine, Cocklebur, Wild Mustard, Crab Grass, Large Dock, Dandelion, Cocoa Grass, Dodder, Foxtail, Ox-eye Daisy, Thistle, Bermuda Grass.
Maine.....	None listed in law itself—large list named in Regulations.
Maryland.....	Wild Onion, Bermuda Grass, Quack Grass, Dodder, Canada Thistle, Hawkweed, Chicory.
Massachusetts..	Dodder, Quack Grass, Wild Mustard, Canada Thistle.
Michigan.....	Quack Grass, Dodders, Canada Thistle, Wild Carrot, Mustards.
Minnesota.....	Quack Grass, Canada Thistle, Perennial Sow Thistle, Dodders, Leafy Spurge, Ox-eye Daisy, Buckhorn Plantain.
Mississippi....	Wild Onion, Bermuda Grass, Dodder, Johnson Grass, Hawkweed, Nut Grass or Cocoa Grass and Tie Vine.
Missouri.....	Group I: Quack Grass, Dodders, Russian Thistle, Wild Carrot, Red Sorrel, Docks, Wild Onion, Garlic, Buckhorn and other varieties of Plantain. Group II: Prohibit Canada Thistle, Johnson Grass and Field Bindweed.
Montana.....	Quack Grass, Fan Weed, Wild Oats, Dodder, Canada Thistle, Wild Mustard, Wild Morning Glory, White Top, Leafy Spurge, Perennial Sow Thistle, Russian Knapweed, Blue Lettuce.
Nebraska.....	I Wild Mustard, Quack Grass, Wild Oats, Dodders. II Small Flowered Morning Glory or Bindweed, Leafy Spurge, Canada Thistle.
Nevada.....	Dodder, Star Thistle, Thistles, Russian Thistle, Hoary Cress, Morning Glory, Johnson Grass, Nut Grass, Creeping Mallow, St. Johnswort, Dandelion, Water Grass, Puncture Vine, Mustards.
New Hampshire	No noxious weeds named.
New Jersey....	Canada Thistle, Dodders, Quack Grass, Horse Nettle, Russian Knapweed.
New Mexico....	Quack Grass, Fan Weed, Mustard, Wild Oats, Dodder.
New York.....	Quack Grass, Wild Mustards, Canada Thistle, Dodder, Crab Grasses, Docks.

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NOXIOUS WEED SEEDS—Continued

North Carolina.	Wild Onion or Wild Garlic, Dodder, Wild Oats, Corn Cockle, Cheat or Chess, Johnson Grass.
North Dakota..	Quack Grass, Canada Thistle, Perennial Sow Thistle, Dodder, Leafy Spurge, Field Bindweed.
Ohio.....	Canada Thistle, Wild Garlic, Quack Grass, Dodders, Plantains, Wild Carrot, Ox-eye Daisy, Corn Cockle, Docks, Chicory, Sorrel.
Oklahoma.....	Dodder, Russian Thistle, Bindweed, Johnson Grass, Canada Thistle, Perennial Bull Nettle.
Oregon.....	Group I: Prohibited—White Top, Russian Knapweed, Leafy Spurge. Group II: Prohibited in excess of 1-50 grams of Alfalfa or other agricultural or turf seeds of similar size. Prohibited in excess of 1-25 grams of Alsike or other agricultural or turf seeds of similar size. Dodder, Canada Thistle, Johnson Grass, Quack Grass. Group III: Name and number per pound—Wild Morning Glory or Bindweed, Blue Lettuce, Deathweed or Sumpweed, Austrian Field Cress, Perennial Sow Thistle, Puncture Vine, Toad Flax, Alkali Mallow, Corn Cockle, Australian Burnweed or Fireweed, Star Thistles, St. Johnswort or Goat Weed, Wild Garlic, Ox-eye Daisy, Cow Cockle, Buckhorn Plantain. Group IV: Name and number per pound only in fine turf seeds (include Rye grasses) and lawn mixtures—Field Madder, Spotted Catsear, Dandelions, Chickweed or Big Mouse Ear, Yarrow, Rippleseed Plantain.
Pennsylvania..	Wild Onion, Quack Grass, Canada Thistle, Devil's Paint Brush, King Devil, Perennial Sow Thistle, Horse Nettle, Bindweed, Dodder.
Rhode Island...	Quack Grass, Canada Thistle, Dodders, Wild Mustards, Crab Grasses, Docks, Corn Cockle, Buckhorn, Wild Carrot.
South Carolina.	Clover Dodder, Field Dodder, White Mustard, Wild Oats.
South Dakota..	Quack Grass, Canada Thistle, Dodder, Perennial Sow Thistle, Leafy Spurge, Field Bindweed and Wild Mustard.
Tennessee.....	Wild Mustard, Quack Grass, Canada Thistle, Wild Oats, Dodders, Corn Cockle, Sour Dock, Ox-eye Daisy, Wild Onion, Johnson Grass.
Texas.....	Dodder, Johnson Grass, Russian Thistle, Bindweed, Blue Weed, Wire Grass, Bermuda Grass.
Utah.....	Group I: All Mustards, Dodders, Buckhorn, Wild Oats, Fanweed. Group II: White Top, Canada Thistle, Wild Morning Glory, Whorled Milkweed, Burdock, Russian Knapweed, Puncture Vine, Perennial Sow Thistle, Ground Cherry, Quack Grass.
Vermont.....	Quack Grass, Mustards, Canada Thistle, Dodder, Ergot, Corn Cockle, Poison Hemlock.
Virginia.....	Quack Grass, Wild Onion, Canada Thistle, Dodders, Bermuda Grass, Hawkweed, Johnson Grass.
Washington....	(a) Bindeed or Wild Morning Glory, Canada Thistle, Corn Cockle, White Top, Russian Knapweed, Leafy Spurge, St. Johnswort, Camelthorn; (b) Quack Grass, Dodder, Fanweed, Perennial Sow Thistle, Poverty Weed, Docks; (c) Wild Oats; (d) Russian Thistle, Wild Mustard, Jim Hill Mustard (Sisymbrium altissimum), Buckhorn, Darnel, Sheep Sorrel.
West Virginia.	Wild Onion, Johnson Grass, Hawkweed, Buckhorn, Wild Mustard, Indian Mustard, Corn Cockle, Ox-eye Daisy, Star Thistle, Wild Carrot, Galinsoga. Prohibit 1-5 grams. Quack Grass, Canada Thistle, Dodder, Perennial Sow Thistle.
Wisconsin.....	Canada Thistle, Quack Grass, Dodders, Wild and Indian Mustard, Buckhorn, Wild Oats, Corn Cockle, Ox-eye Daisy, Snapdragon, Sow Thistle.
Wyoming.....	Quack Grass, Canada Thistle, Cocoa Grass, Horse Nettle, Johnson Grass, Austrian Field Cress, Camelthorn, Field Bindweed, Leafy Spurge, Perennial Ragweed, Russian Knapweed, St. Johnswort, White Tops, Flowering Spurge, Ox-eye Daisy, Spreading Dog Bane, Yellow Cress, White Ragweed, Austrian Pea Weed, Sow Thistle.

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SCIENTIFIC NAMES OF NOXIOUS WEEDS AS USED IN STATE SEED LAWS

(Names in parentheses are those used in the various state laws but are not the approved name on the Seed List of the U. S. Dept. of Agriculture.)

A

Alkali Mallow—*Sida hederacea*
Australian Burnweed—*Erechitites prenanthoides*
Austrian Field Cress—*Radicula austriaca* (*Roripa austriaca*)
Austrian Pea Weed—*Swainconia solsula*

B

Ball Mustard—*Neslia paniculata*
Bermuda Grass—*Cynodon* (*or Capriola*) *dactylon*
Bearded Darnel—*Lolium temulentum*
Big Mouse-ear—*Cerastium vulgatum*
Bindweed—*Convolvulus spp.* (*Tex. & Pa.*) (*Calif. Convolvulus arvensis*)
Black Mustard—*Brassica nigra*
Bladder Campion—*Silene latifolia*
Blue Lettuce—*Lactuca pulchella*
Blue Weed—*Echuim vulgare* (*Tex. Helianthus ciliaris*)
Bracted Plantain—*Plantago aristata*
Buckhorn—*Plantago lanceolata*
Buckhorn Plantain—*Plantago lanceolata*
Bull Nettle—(*Ill. Solanum carolinense*)
Bull Thistle—*Cirsium lanceolatum*
Burdock—*Arctium minus*
Burdock—(*La. Xanthium canadense*)
Burr Grass—(*Ariz.-?*)
Butter and Eggs—*Linaria vulgaris* (*Linaria linaria*)

C

Camel's Thorn—*Alhagi pseudalhagi* (*or Alhagi camelorum*)
Canada Thistle—*Cirsium arvense* (*or Carduus arvensis*)
Careless Weed—(*Ariz.-?*)
Cat's Ear—*Hypochaeris radicata*
Cheat or Chess—*Bromus secalinus* (*Kan. Bromus spp.*)
Charlock—*Brassica arvensis*
Chickweed—*Cerastium vulgatum*
Chicory—*Cichorium intybus*
Clover Dodder—*Cuscuta epithymum*
Coast Dandelion—*Hypochaeris radicata*
Cocklebur—*Xanthium sp.*
Cocoa Grass—*Cyperus rotundus*
Common Plantain—(*Ind. Plantago major & rugelii*)
Corn Cockle—*Agrostemma* (*or Lychnis*) *githago*
Cow Cockle—*Vaccaria pyramidata*
Cow Herb—(*Saponaria vaccaria*)
Crab Grass—*Digitaria sanguinalis*
Crab Grasses—*Digitaria spp.*
Creeping Mallow—*Sida hederacea*
Creeping Sow Thistle—(*Calif. Sonchus arvensis*)
Curled Dock—*Rumex crispus*
Curlydock—*Rumex crispus*

D

Daisy Fleabane—*Erigeron ramosus*
Dandelion—*Leontodon* (*or Taraxacum*) *spp.* (*La. Pyrrhopappus carolinianus*) (*Nev. Hypochaeris spp.*)
Darnel—*Lolium temulentum*
Deathweed—*Iva axillaris*
Devil's Paint Brush—*Hieracium aurantiacum*
Docks—*Rumex spp.*
Dock, Bitter—*Rumex obtusifolius*
Dock, Clustered—(*Ma. Rumex conglomeratus*)
Dock, Large—(*La. Rumex obtusifolius*)
Dock, Smooth—(*Iowa Rumex altissimus*)
Dock, Sour—(*Tenn. Rumex obtusifolius*) (*Iowa Rumex crispus*)
Dock, Yellow—(*Ma. Rumex crispus*)
Dodder—*Cuscuta spp.* (*La. Cuscuta epithymum*)

E

English Charlock—*Brassica arvensis*
European Morning Glory—*Convolvulus arvensis*

F

False Flax—*Camelina spp.*
Fanweed—*Thlaspi arvense*
Field Bindweed—*Convolvulus arvensis*
Field Madder—*Sherardia arvensis*
Field Penny Cress—*Thlaspi arvense*
Field Sorrel—*Rumex acetosella*
Fireweed—*Erechtites prenanthoides*
Flowering Spurge—*Euphorbia corollata*
Foxtail—(*La. Alopecurus geniculatus*)
Frenchweed—*Thlaspi arvense*

G

Galinsoga—*Galinsoga parviflora*
Goat Grass—*Aegilops Triuncialis*
Goat Weed—*Hypericum perforatum*
Ground Nut Burr—(*Nev. Tribulus spp.*)
Ground Cherry—*Physalis lanceolata*

H

Hare's Ear Mustard—*Conringia orientalis*
Hawkweed—*Hieracium spp.*
Hoary Cress—*Lepidium draba*
Horsenettle—*Solanum carolinsense*
Hop Clover—*Trifolium aureum, or dubium, or procumbens*

I

Indian Mustard—*Brassica juncea*

J

Jim Hill Mustard—*Sisymbrium altissimum*
Johnson Grass—*Sorghum* (*or Holcus*) *halepense*

K

Klamath Weed—*Hypericum perforatum*
King Devil Weed—*Hieracium pratense* (*Pa. Hieracium spp.*)

L

Large Dock—(*La. Rumex obtusifolius*)
Lamb's Quarters—*Chenopodium album*
Leafy Spurge—*Euphorbia esula* (*Iowa Euphorbia esula and lucida*)

M

Morning Glory—*Ipomoea spp.* (*Nev. Convolvulus spp.*) (*Calif. Convolvulus arvensis*)
Mustards—*Brassica spp.*

N

Nut Grass—*Cyperus spp.* (*Calif.*)

O

Orange Hawkweed—*Hieracium aurantiacum*
Oxeye daisy—*Chrysanthemum leucanthemum* (*La. Rudbeckia hirta*)

P

Perennial Bull Nettle—*Solanum carolinense*
Perennial Pepper Grass—*Lepidium draba*
Perennial Sow Thistle—*Sonchus Arvensis* (*Iowa also Sonchus uliginosus*)
Plantain—*Plantago spp.*
Poison Hemlock—*Conium maculatum*
Poison Milkweed—*Asclepias verticillata*
Poverty Weed—*Iva axillaris*
Prickly Lettuce—*Lactuca scariola*
Puncture Vine—*Tribulus terrestris*
Perennial Ragweed—*Ambrosia psiilostachya*

Q

Quackgrass—*Agropyron repens*

R

Ragweed—*Ambrosia spp.*
Red Rice—*Unpolished rice*
Red Sorell—*Rumex acetosella*
Ribgrass—*Plantago lanceolata*
Rippleseed Plantain—*Plantago major*
Russian Knapweed—*Centaurea picris* (*Iowa, Calif. & Wyo. Centaurea repens*)
Russian Thistle—*Salsola pestifer*

S

Scotch Thistle—(*Ariz.-?*)
Silver Leaf Nightshade—*Solanum elaeagnifolium*
Sheep Sorrel—*Rumex acetosella*

(Continued on page 161)

Attention Seedsmen!

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MORRIS **ILLINOIS**

SCIENTIFIC NAMES OF NOXIOUS WEEDS AS USED IN STATE SEED LAWS—(Continued)

S—(Continued)

Small Flowered Morning Glory—*Convolvulus arvensis*
Smooth Dock—*Rumex altissimum*
Snapdragon—*Linaria vulgaris (or Linaria linaria)*
Sorrel—*Rumex acetosella*
Sour Dock—(*Iowa Rumex crispus*) (*Tenn. Rumex obtusifolius*)
Sow Thistle, Annual—*Sonchus asper,* Perennial—*Sonchus arvensis,* Prickly—*Sonchus oleraceus*
Spotted Catsear—*Hypochaeris radicata*
Spreading Dog Bane—*Apocyanum androsaemifolium*
Spurge—(*Ida Euphorbia cyperissias*)
Squirrel-tail—*Hordeum jubatum*
St. Johnswort—*Hypericum perforatum*
Star Thistle—*Centaurea solstilialis (W. Va. & Calif.)* (*Nev. Centaurea spp.*) (*Ore. Centaurea solstilias, melitensis and iberica*)
Sumpweed—*Iva axillaris*
Sweet Scabious—*Erigeron annuus*

T

Thistle—(*Nev. Cirsium or Carduus or Cnicus spp.*) (*La. Sonchus spp.*)
Tie Vine—*Convolvulus arvensis*
Toad Flax—*Linaria vulgaris*
Tumble Mustard—*Sisymbrium altissimum*

W

Water Grass—(*Nev. Echinochloa spp.*)
White Top—(*Ind. Erigeron annuus*) (*Ariz. Lepidium spp.*) (*Ill. Utah Lepidium draba*) (*Ore. & Wash. Lepidium draba and repens, and Hymenophysa pubscens*) (*Wyo. Lepidium draba and repens*)
Wild Barley—*Hordeum jubatum*
Wild Carrot—*Daucus carota*
Wild Garlic—*Allium vineale*
Wild Morning Glory—(*Ore. & Idaho Convolvulus arvensis*)
Wild Mustard—*Brassica arvensis*
Wild Mustards—*Brassica spp.*
Wild Oats—*Avena fatua*
Wild Onion—*Allium vineale*
Wild Radish—*Raphanus raphanistrum*
Wire Grass—*Tex. Paspalum distichum*
Whorled Milkweed—*Asclepias verticillata*
White Ragweed—*Franseria discolor*

Y

Yarrow—*Achillea millefolium*
Yellow Cress—*Roripa sylvestris*
Yellow Star Thistle—*Centaurea solstitialis*
Yellow Toadflax—*Linaria vulgaris*
Yellow Trefoil—*Medicago lupulinus*

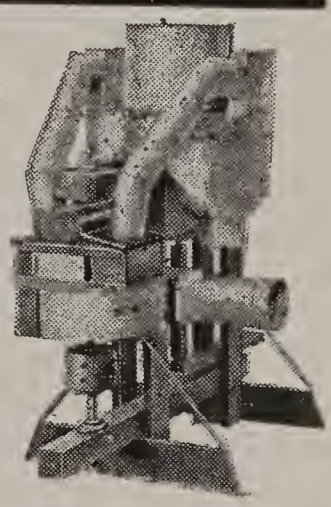


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HARDY NORTHERN GROWN

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  Fancy Swedish select type
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CARLOTS OR LESS

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Secretary-Treasurer—J. H. Cade,
Alexandria Seed Co.,
Alexandria, La.

Michigan State Seed Dealers' Association

President—W. R. Amon,
Alfred J. Brown Seed Co.,
Grand Rapids, Mich.
Secretary-Treasurer—L. S. Markley,
Isbell Seed Co.,
Jackson, Mich.

Minnesota Seed Dealers' Association

President—J. H. Withey,
Northrup, King & Co.,
1500 Jackson St., N. E.,
Minneapolis, Minn.
Secretary-Treasurer—Leslie Edgerton,
Farm Service Stores, Inc.,
Minneapolis, Minn.

Mississippi Seedsmen's Association

President—Carl Hyde,
Vicksburg Seed Co.,
Vicksburg, Miss.
Secretary-Treasurer—W. H. Broome,
Delta Seed & Supply Co.,

Missouri Seedsmen's Association

President—Fred Ricketts,
Springfield Seed Co.,
Springfield, Mo.,
Secretary—L. H. Archias, Jr.,
Archias Seed Store Corp.,
Sedalia, Mo.

Nebraska Seed Dealers' Association

President—B. F. Sheehan,
Griswold Seed & Nursery Co.,
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Secretary-Treasurer—Robt. S. Griswold,
R. S. Griswold Seed & Floral Co.,
Lincoln, Nebr.

New York State Seed Association

President—Harry Candy,
Peter Henderson & Co.,
35 Cortlandt St.,
New York, N. Y.
Secretary-Treasurer—Geo. B. Weaver,
Fredonia Seed Co.,
Fredonia, N. Y.

North Carolina Seedsmen's Association

President—A. C. Hattaway,
Hattaway-Jordan Seed Co.,
Greensboro, N. C.
Secretary—W. G. Quarles,
Job P. Wyatt & Sons Co.,
Raleigh, N. C.

North Dakota Seed Trade Association

President—Ralph Gunkelman,
Interstate Seed & Grain Co.,
Fargo, N. Dak.
Secretary-Treasurer—Sam. Provan,
Newday Seeds, Inc.
Fargo, N. Dak.

Ohio State Seed Dealers' Association

President—A. W. Livingston,
Livingston Seed Co.,
Columbus, Ohio.
Secretary-Treasurer—Floyd Bradley,
Templin Bradley Co.,
Cleveland, Ohio.

Oklahoma Seedsmen's Association

President—M. F. Martin,
Muskogee Seed House,
Muskogee, Okla.
Secretary-Treasurer—H. E. Grisham,
Grisham Seed Co.,
Oklahoma City, Okla.

South Carolina Seedsmen's Association

President—J. P. Harmon,
Caughman Seed & Feed Co.,
Columbia, S. C.
Secretary-Treasurer—E. W. Bailey,
E. W. Bailey Seed Co.,
Charleston, S. C.

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Black Hills Seed Co.,
Newell, S. Dak.
Secretary-Treasurer—Richard Burn,
Dakota Improved Seed Co.,
Mitchell, S. Dak.

Tennessee Seed Dealers' Association

President—E. D. Hicks, Jr.,
Dobson-Hicks Co.,
Nashville, Tenn.

Texas Seedsmen's Association

President—A. E. Ruhmann,
Ruhmann Seed & Grain Co.,
Waco, Tex.
Secretary-Treasurer—A. V. Lawrence,
Magnolia Seed Co.,
Dallas, Tex.

Virginia Seedsmen's Association

President—J. R. Little,
W. Grossman & Sons,
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Secretary-Treasurer—H. P. Johnson,
T. W. Wood & Sons,
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President—Henry Michels,
Henry Michels Seed Co.
Fond du Lac, Wis.
Secretary-Treasurer—J. W. Jung,
J. W. Jung Seed Co.,
Randolph, Wis.

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THE SUPERIORITY OF O & M



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GARDEN CORN
SEED OATS
SEED BARLEY
GRASS SEED

is proven year after year.

Write for catalog and prices.



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Straight and Mixed Cars

Write or Wire for Samples and Quotations.

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FARM SERVICE COMPANY
(Trade Name)
DIVISION OF GENERAL MILLS, Inc.
MINNEAPOLIS, MINN.

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INCORPORATED
Established 1895
LOUISVILLE, KY.

Forty Years



The Best

Wholesale Field and Grass Seeds
Jobbers of
Orchard Grass . . Bluegrass . . Redtop . . Clovers . . Timothy . . Korean (Lespedeza) . . Soybeans . . Cowpeas, Etc.

Car lots or less

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INCORPORATED
15th and Lytle Louisville, Ky.

We Specialize in

CARLOADS

ALFALFA
LESPEDEZA
SOY BEANS
COW PEAS
SUDAN GRASS
HARPETH RIVER
SEED CORNS

RUSSELL - HECKLE SEED COMPANY
MEMPHIS, TENNESSEE

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WHOLESALE SELLING PRICES FOR BEST GRADES OF FIELD SEEDS AT IMPORTANT MARKETS, 1922-37

(Per 100 pounds, except for last 8 kinds where prices per bushel are given.)

Compiled from office records, by the Hay, Feed and Seed Division, Bureau of Agricultural Economics, U. S. Department of Agriculture.

Kind of Seed	Market	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
		Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Alfalfa	Kansas City	17.95	20.05	22.25	22.85	20.40	19.90	21.90	26.05	24.80	22.55	13.65	13.60	13.00	19.80	15.20	29.60
Red clover	Chicago	23.50	20.95	20.90	34.00	33.65	42.55	30.65	33.65	21.35	25.05	16.35	11.40	14.75	23.65	20.90	38.25
Alsike clover	Chicago	18.20	16.45	15.65	23.40	27.55	37.40	27.80	34.65	19.90	23.50	15.05	11.95	16.25	28.65	23.30	25.95
Sweetclover	Minneapolis	8.55	12.40	15.30	12.35	9.65	13.65	8.55	8.50	8.00	9.20	5.50	4.50	6.50	10.40	6.25	17.00
White clover	Chicago	34.15	57.10	45.70	46.00	39.00	33.65	32.30	28.30	27.50	39.05	40.50	27.85	30.50	27.50	27.10	30.10
Crimson clover	Baltimore	10.80	15.90	8.25	7.30	7.10	14.25	18.45	12.00	11.50	9.00	6.75	9.20	9.20	12.05	7.55	7.80
Lespedeza	Louisville	17.10	19.00	20.80	19.50	15.75	8.55	17.65	20.45	14.35	14.70	8.10	7.50	5.00	10.50	5.65	15.60
Timothy	Chicago	7.00	7.00	7.95	6.80	7.95	5.95	4.75	6.55	8.05	10.55	4.30	3.25	8.50	22.80	3.65	6.95
Redtop	Chicago	22.65	18.70	13.60	14.40	31.25	25.30	13.10	14.60	16.50	24.20	8.70	5.30	8.40	13.95	9.35	21.50
Kentucky bluegrass	Kansas City	53.50	25.90	25.10	28.00	38.05	20.55	19.70	31.30	20.00	35.35	13.45	8.35	13.40	23.20	12.30	18.35
Orchard grass	Louisville	18.20	12.95	16.90	16.05	19.50	13.80	17.45	16.70	17.15	16.05	7.35	7.30	9.70	16.20	12.50	18.30
Meadow fescue	Kansas City	15.90	10.00	10.60	9.40	15.50	25.00	14.70	16.00	10.00	10.75	5.50	4.15	7.05	18.00	7.00	10.50
Chewings fescue	Baltimore	60.00	47.35	26.00	23.20	30.00	26.00	27.00	29.75	27.00	36.00	22.65	11.75	19.35	55.45	41.90	31.80
Sheep's fescue	Baltimore	40.00	39.00	22.25	16.90	24.00	26.00	26.00	25.00	22.00	27.50	14.90	10.95	14.85	52.45	30.25	29.00
German mixed bent	Baltimore	135.00	155.00	125.00	72.55	113.10	58.05	52.70	50.00	55.00	85.00	71.60	62.00	72.15	85.90	52.70	45.00
Bermuda grass	Baltimore	29.20	21.35	38.50	45.00	40.00	27.70	25.55	32.00	33.80	31.35	16.25	12.10	10.55	20.40	23.45	26.75
Bromus inermis	Minneapolis	9.50	8.90	9.00	9.70	9.20	12.35	10.00	12.00	18.50	20.00	14.00	8.00	16.20	26.00	13.45	26.00
Italian ryegrass	Baltimore	8.55	11.45	11.40	11.05	9.00	9.00	10.30	9.15	9.25	9.50	8.85	7.10	.....	.....	.....	7.10
Perennial ryegrass	Baltimore	8.55	11.55	12.20	12.05	9.30	13.85	11.50	8.40	8.75	10.00	8.85	7.10	11.40	11.90	10.20	11.30
Domestic ryegrass	Baltimore	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.00	3.45	3.70	6.70	5.20	4.50	7.10
German millet	Kansas City	2.05	3.75	3.80	5.00	3.10	3.25	2.45	3.45	3.45	3.70	1.80	1.55	3.35	7.00	2.70	4.90
Common millet	Minneapolis	2.30	3.30	2.70	4.40	3.60	4.25	3.25	3.00	3.20	4.40	2.55	2.05	.....	.....	.....	2.50
Siberian millet	Minneapolis	2.80	4.30	2.70	4.25	3.45	4.85	3.30	2.75	3.10	3.40	2.60	2.40	3.65	6.10	2.75	3.40
Hungarian millet	Chicago	2.55	3.10	4.05	5.00	3.25	4.15	4.10	4.65	4.10	3.50	2.25	1.95	2.90	6.05	3.00	5.00
Japanese millet	Chicago	4.50	2.85	2.50	3.95	5.05	6.95	8.90	5.25	4.20	3.70	3.20	2.90	3.00	6.00	2.50	3.25
Broomcorn millet	Minneapolis	2.30	3.10	2.40	3.45	3.40	3.35	2.55	2.40	3.00	2.40	1.95	1.80	2.20	4.30	2.25	2.75
Amber sorgo	Kansas City	1.95	4.25	1.75	2.25	2.70	3.10	2.00	2.30	3.45	2.80	1.20	1.15	1.60	5.65	2.70	4.00
Orange sorgo	Kansas City	2.05	4.50	2.05	2.35	2.85	2.80	2.00	2.30	3.30	2.80	1.25	1.20	2.10	5.40	2.70	3.95
Sudan grass	Kansas City	4.30	14.30	8.20	5.70	4.30	6.70	3.60	5.80	5.40	7.40	1.75	2.05	5.50	12.30	3.15	4.60
Rape	Baltimore	6.85	6.20	5.50	7.00	6.50	5.95	5.95	6.65	5.70	4.30	4.15	3.75	4.30	3.60	4.00	5.95
Hairy vetch	Baltimore	12.25	16.80	10.45	8.80	12.25	15.10	9.70	9.30	9.00	8.45	7.50	7.00	8.75	11.50	9.75	8.85
Common vetch	Baltimore	4.80	5.15	4.00	4.25	4.60	5.00	4.50	4.50	4.80	4.50	4.00	3.50	5.00	3.50	3.75	5.00
Canada field peas	Minneapolis	5.80	5.80	4.90	5.40	4.40	5.15	5.25	5.45	5.25	3.85	4.80	4.50	3.85	3.85	4.00	5.15
Kafir	Kansas City	1.60	2.10	1.90	2.45	2.25	1.75	1.95	1.95	2.05	1.75	1.15	1.10	1.40	3.20	2.00	3.15
Cowpeas ..... Bu.	Baltimore	2.35	2.55	3.25	3.90	4.25	2.15	2.05	3.50	3.30	2.70	1.05	.95	2.50	2.50	2.30	3.00
Soybeans ..... "	Louisville	2.25	2.60	2.55	2.30	2.45	2.35	2.00	2.50	2.25	2.15	.75	.95	1.45	1.60	1.35	2.25
Seed corn ..... "	Chicago	.95	1.30	1.70	2.65	2.40	1.85	1.85	1.80	1.75	1.65	1.20	.85	1.00	1.75	2.95	3.00
Seed wheat ..... "	Minneapolis	1.95	1.75	1.75	2.35	2.15	2.05	1.85	1.60	1.65	1.15	1.00	.90	1.25	1.50	1.65	2.00
Seed oats ..... "	Minneapolis	.85	.95	.75	.85	.70	.85	.90	.85	.80	.65	.55	.45	.65	.90	.70	.90
Seed barley ..... "	Minneapolis	.85	.85	.90	1.20	.90	1.05	1.20	.95	.80	.75	.75	.65	.95	1.45	1.00	1.70
Seed rye ..... "	Minneapolis	1.80	1.35	1.40	1.85	1.45	1.50	1.60	1.55	1.50	1.05	.90	.80	1.35	1.50	1.25	1.45
Seed buckwheat .. "	Minneapolis	1.40	1.35	1.30	1.50	1.25	1.35	1.60	1.40	1.50	1.30	1.20	.95	1.20	1.15	1.85	3.50

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Hamilton Seed and Coal Co.

Cedar Rapids, Iowa

Wholesale Dealers

TIMOTHY — ALSIKE — RED CLOVER — ALFALFA

Headquarters
FOR
High Quality

NORTHERN
MINNESOTA

SWEET CLOVER
ALFALFA
Timothy
Red Clover
Alsike Clover

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SEED DIVISION
Minneapolis, Minnesota

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ARE ALWAYS DEPENDABLE

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FIELD SEEDS

Specializing in
NEW ZEALAND CHEWINGS
FESCUE
BENT GRASSES
FANCY GRASSES for GOLF COURSES

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115 BROAD ST. NEW YORK, N. Y.

LEWIS & CLARK SEED COMPANY
ASTORIA and SEASIDE

Growers BENT GRASS SEED *Shippers*

OREGON CERTIFIED

Astoria, Oregon

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1938 ALL-AMERICA WINNERS

FLOWERS

Species	*Variety*	*Award*	*Entered for Trial by*
Petunia	Salmon Supreme	Award of Merit	W. Atlee Burpee Co., Philadelphia, Pa.
Antirrhinum	Celestial	Award of Merit	Sluis en Groot, Enkhuizen, Holland
Pansy	Coronation Gold	Award of Merit	Sluis en Groot, Enkhuizen, Holland
Calliopsis	Golden Crown	Award of Merit	Hurst & Son, London, England
Calendula	Orange Fantasy	Award of Merit	W. Atlee Burpee Co., Philadelphia, Pa.
Petunia	Orchid Beauty	Award of Merit	T. Sakata & Co., Yokohama, Japan
Petunia	Gaiety	Special Mention	T. Sakata & Co., Yokohama, Japan
Petunia	Topaz-Rose	Special Mention	Waller-Franklin Seed Co., Guadalupe, Calif.
Marigold	Golden West	Recommended	W. Atlee Burpee Co., Philadelphia, Pa.
Petunia	Blue Gem	Recommended	T. Sakata & Co., Yokohama, Japan
Zinnia	Navajo Mixed	Recommended	W. Atlee Burpee Co., Philadelphia, Pa.
Aster	Enchantress	Recommended	Bodger Seeds, Ltd., El Monte, Calif.
Aster	Illusion	Recommended	Bodger Seeds, Ltd., El Monte, Calif.
Marigold	American Beauty Mixed or Chrysanthemum Flowered Incurved	Recommended	Waller-Franklin Seed Co., Guadalupe, Calif.
Myosotis	Ingrid	Recommended	L. Daehnfeldt, Ltd., Odense, Denmark
Antirrhinum	Psyche	Recommended	L. Daehnfeldt, Ltd., Odense, Denmark

VEGETABLES

Bean	The Commodore	Award of Merit	Zwaan & Van der Molen, Voorburg, Holland
Squash	Early Prolific Straightneck	Award of Merit	Ferry-Morse Seed Co., Detroit, Mich., and San Francisco, Calif.
Cabbage	Chieftain	Award of Merit	Ferry-Morse Seed Co. Detroit, Mich., and San Francisco, Calif.
Pepper	Rocky Ford	Special Mention	D. V. Burrell Seed Growers Co., Rocky Ford, Colo.
Beet	Perfect Model	Special Mention	Abraham Sluis, Ltd., Enkhuizen, Holland
Cabbage	Sauerkraut King	Recommended	Abraham Sluis, Ltd., Enkhuizen, Holland
Tomato	Cardinal	Recommended	Associated Seed Growers, Inc., New Haven, Conn.
Spinach	Del Monte	Recommended	Zwaan & Van der Molen, Voorburg, Holland
Tomato	Harkness	Recommended	McFayden Seed Co., Winnipeg, Manitoba, Can.
Radish	Billiard Ball	Recommended	Sluis en Groot, Enkhuizen, Holland
Lettuce	Spearhead	Recommended	W. Atlee Burpee Co., Philadelphia, Pa.

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FIELD SEEDS
of Quality!

★ FAIR PRICE
GOOD SERVICE

CRAWFORDSVILLE
SEED COMPANY
CRAWFORDSVILLE, IND.

CANADA'S
GREATEST
SEED HOUSE

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ALFALFA GRIMM
SWEET CLOVER
ALSIKE
CANADIAN BLUE GRASS
SLENDER WHEAT GRASS
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both Fairway and Forage Strain

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MELILOTUS
INDICA

★

Bermuda
GRASS SEED

★

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CUFF - ARCHIAS SEED CO.
BRAWLEY -:- CALIFORNIA

OATS
BARLEY
RYE &
WHEAT

of

GOOD QUALITY
Selected - Recleaned
GRAIN

WRITE
FOR SAMPLE
AND PRICES

•••

VAN DUSEN HARRINGTON CO.
MINNEAPOLIS, MINNESOTA

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FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEEDS ACT

By Fiscal Years Ending June 30, 1931-1937, and by Countries Exporting

(Reported by the Division of Seed Investigations, Bureau of Plant Industry.)

ALFALFA

COUNTRY	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Argentina	44,500	.....	(1)2,600	.....	.....	.....	1,181,400
Canada	177,900	352,700	2,600	24,500	(2)123,300	56,700	1,742,200
France	11,000	.....	(1)3,000	.....	.....	.....	(3)487,900
Germany	.....	.....	.....	.....	.....	.....	.....
Latvia	.....	.....	.....	.....	.....	.....	.....
Other countries	.....	.....	(1)33,000	(1)22,000	200	.....	(4)233,100

ALSIKE CLOVER

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	93,800	.....	.....	.....	700	26,300	2,496,800
Germany	.....	.....	.....	.....	.....	.....	.....
Other countries	.....	.....	.....	.....	(1)33,600	(1)35,900	(5)641,900

WINTER RAPE SEED

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
China	.....	.....	.....	.....	.....	.....	.....
France	.....	21,800	33,100	.....	.....	.....	.....
Germany	(6)489,000	214,700	120,400	33,700	.....	.....	(7)1,100
Great Britain	6,700	2,100	9,600	2,600	4,100	6,900	3,900
Hungary	69,600	59,600	.....	58,600	5,600	.....	(8)1,879,000
Japan	2,042,000	961,300	4,149,700	4,507,200	7,594,500	7,320,800	1,368,500
The Netherlands	2,478,800	2,410,100	831,900	631,100	181,500	342,100	(9)3,517,100
Poland	32,800	92,200	29,600	32,700	.....	.....	725,500
Other countries	.....	100	100	15,300	21,800	101,400	.....

HAIRY VETCH

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	6,500	14,300	7,500	1,200	.....	.....	.....
Czechoslovakia	64,500	228,500	548,000	225,300	.....	189,900	21,300
Denmark	.....	78,200	5,400	10,900	.....	.....	.....
Germany	(1)543,100	(12)548,500	(13)540,500	(14)207,300	.....	95,000	68,400
Great Britain	.....	.....	.....	(15)55,100	.....	.....	.....
Hungary	540,000	1,043,900	647,100	1,975,500	21,800	985,100	2,732,900
Latvia	427,000	248,900	(16)1,041,700	(17)363,000	.....	.....	.....
Lithuania	.....	32,800	41,600	.....	.....	.....	.....
Poland	.....	167,700	61,800	281,100	.....	.....	202,100
Sweden	47,100	2,600	.....	22,000	.....	.....	.....
Other countries	.....	.....	.....	.....	.....	310,400	.....

PERENNIAL RYE GRASS

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Denmark	500	2,300	7,100	5,600	(18)16,100	37,200	18,700
Great Britain	(19)295,400	(20)219,200	(21)248,700	(22)141,800	(23)139,700	(24)220,400	(25)303,600
Northern Ireland	523,500	373,200	206,100	302,200	136,500	105,000	185,000
New Zealand	3,200	47,900	300	75,300	126,200	144,600	460,900
Other countries	900	(26)2,900	600	(27)6,700	800	.....	4,600

CRIMSON CLOVER

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Czechoslovakia	.....	.....	.....	.....	.....	.....	.....
France	1,242,200	54,600	5,500	.....	.....	.....	.....
Germany	(7)231,800	(29)285,900	.....	(7)21,800	.....	.....	(7)15,400
Great Britain	85,700	20,100	.....	.....	.....	.....	(7)18,000
Hungary	1,519,200	1,470,600	673,300	1,921,200	196,700	2,105,200	5,518,800
Poland	.....	.....	6,200	34,000	.....	.....	.....
The Netherlands	.....	.....	.....	.....	.....	43,600	(30)87,300

(1) American goods returned. (2) 30,000 pounds American goods returned. (3) 366,700 pounds of Argentine origin; 121,200 pounds of South African origin. (4) 85,500 pounds from Belgium (of Argentine origin); 15,300 pounds from the Netherlands (of Hungarian origin); 44,800 pounds from South Africa; 54,500 pounds from Rumania; 33,000 pounds from Austria (of Rumanian origin). (5) From Latvia. (6) 11,000 pounds of Hungarian origin. (7) Of Hungarian origin. (8) 33,100 pounds of Polish origin. (9) 32,400 pounds of Polish origin. (10) 271,500 pounds of Czechoslovakian origin; 187,300 pounds of Latvian origin; 87,600 pounds of Hungarian origin. (11) 356,800 pounds of Hungarian origin; 46,800 pounds of Czechoslovakian origin. (12) 60,500 pounds of Hungarian origin; 43,800 pounds of Latvian origin. (13) 142,600 pounds of Lithuanian origin; 28,600 pounds of Latvian origin; 10,900 pounds of Czechoslovakian origin. (14) 71,500 pounds of Hungarian origin; 33,000 pounds of Czechoslovakian origin; 17,600 pounds of Lithuanian origin. (15) Of German origin. (16) 76,500 pounds of Lithuanian origin. (17) 77,000 pounds of Lithuanian origin. (18) 14,100 pounds of British origin. (19) 51,600 pounds of Northern Irish origin. (20) 155,100 pounds of Northern Irish origin. (21) 214,700 pounds of Northern Irish origin. (22) 133,800 pounds of Northern Irish origin. (23) 108,300 pounds of Northern Irish origin. (24) 170,900 pounds of Northern Irish origin. (25) 268,500 pounds of Northern Irish origin; 27,500 pounds of New Zealand origin; 2,000 pounds of Danish origin. (26) 2,200 pounds of Australian origin; 700 pounds from the Netherlands. (27) Of Northern Irish origin. (28) 589,900 pounds of Hungarian origin; 36,100 pounds of Czechoslovakian origin. (29) 187,900 pounds of Hungarian origin. (30) 43,600 pounds of Hungarian origin.

(Continued on Next Page)

FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

ORCHARD GRASS

COUNTRY	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Denmark	339,700	.....	19,000	5,000	366,600	729,100	1,819,700
Germany	2,200	1,100	.....	.....	.....	.....	.....
The Netherlands	.....	.....	.....	.....	.....	.....	.....
Other countries	100	.....	100	100	(1)30,500	.....	74,800

RED CLOVER

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	.....	100	.....	.....	200	11,100	(2)2,524,700
Czechoslovakia	44,100	.....	.....	.....	.....	.....	118,800
France	2,630,800	.....	.....	.....	.....	.....	1,100,800
Germany	.....	.....	.....	.....	.....	.....	.....
Great Britain	11,200	(4)30,800	.....	.....	(4)100,700	(4)35,900	(5)241,000
The Netherlands	.....	.....	.....	.....	.....	.....	(6)65,400
Poland	119,000	.....	.....	.....	.....	.....	3,092,600
Other countries	100	(4)100	.....	(4)11,000	200	.....	(8)6,736,000

CANADA BLUEGRASS

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	985,100	366,200	191,100	128,100	129,700	155,900	120,400

COMMON VETCH

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	.....	500	.....	100	100	.....	.....
Germany	286,700	.....	95,500	(9)30,600	.....	.....	.....
Great Britain	.....	.....	.....	.....	.....	.....	.....
Latvia	33,000	.....	.....	.....	.....	.....	.....
The Netherlands	55,100	.....	.....	.....	.....	.....	.....
Poland	.....	.....	.....	87,800	.....	.....	67,900
Other countries	(11)329,500	(12)201,600	.....	(13)599,900	8,800	.....	(14)258,100

ITALIAN RYEGRASS

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Argentina	.....	.....	.....	.....	.....	.....	.....
Denmark	39,800	18,200	14,000	6,000	5,500	15,900	23,600
France	.....	.....	.....	.....	.....	.....	.....
Great Britain	(15)67,600	10,400	(16)13,400	(17)4,500	(17)5,200	.....	.....
North Ireland	90,100	45,400	7,200	4,500	.....	1,000	1,300
The Netherlands	2,300	500	200	200	200	300	.....
New Zealand	.....	600	6,500	11,200	25,400	12,400	14,600
Other countries	600	.....	(19)1,000	.....	600	300	200

WHITE CLOVER

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Czechoslovakia	.....	(20)30,600	36,500	.....	.....	10,800	.....
Denmark	.....	.....	7,900	.....	100	(21)1,100	.....
France	.....	.....	.....	.....	220	.....	.....
Germany	378,600	(20)494,200	(20)696,700	(24)483,500	(25)234,900	(22)384,500	(27)220,200
Great Britain	31,500	(20)23,900	(20)17,300	(28)16,700	(29)20,000	(26)35,400	(30)54,000
The Netherlands	.....	.....	40,700	.....	.....	10,800	21,700
New Zealand	6,800	6,500	.....	.....	.....	.....	5,800
Poland	350,500	335,100	1,077,100	448,800	841,000	1,015,800	1,463,000
Other countries	300	2,200	66,700	13,200	(31)2,000	(32)91,600	(33)203,200

FOXTAIL MILLET

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	.....	.....	.....	.....	76,300	53,600	26,000
China	.....	.....	.....	.....	4,511,900	250,500	.....
Germany	.....	.....	.....	.....	(16)65,500	.....	.....
Hungary	.....	.....	.....	.....	812,300	.....	(34)273,000
Manchuria	.....	.....	.....	.....	5,288,900	.....	459,400

(Continued on next page)

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FORAGE PLANT SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

TIMOTHY

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	.....	.....	100	.....	2,410,200	700	105,100
Denmark	.....	.....	.....	.....	(35)68,400	.....	.....
Finland	.....	.....	.....	.....	150,800	.....	.....
Germany	.....	.....	.....	.....	(36)350,300	.....	.....
Great Britain	.....	.....	.....	.....	(37)713,300	100	100
Latvia	.....	.....	.....	.....	165,000	.....	.....
Poland	.....	.....	.....	.....	459,200	.....	.....
Sweden	.....	.....	.....	.....	(38)406,400	.....	.....
Other countries	.....	.....	.....	.....	20,900	.....	.....

ALL OTHER FORAGE CROP SEEDS

	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	4,300	200	1,500	40,300	(39)396,000	865,400	(40)919,300
Denmark	.....	200	100	.....	600	.....	.....
Germany	1,400	16,300	100	.....	.....	.....	.....
Other countries	14,900	2,900	1,700	(41)281,100	1,900	1,700	3,000

(1) 22,500 pounds of Danish origin. (2) 200 pounds of New Zealand origin. (3) 300,800 pounds of Polish origin. (4) American goods returned. (5) 178,700 pounds of Chilean origin; 39,800 pounds of Polish origin; 22,400 pounds of Argentine origin. (6) Of Hungarian origin. (7) Of European Russian origin. (8) 3,967,700 pounds from Hungary; 1,191,100 pounds from Rumania; 988,800 pounds from Latvia; 312,300 pounds from Chile; 166,400 pounds from Austria (of Polish origin); 66,100 pounds from Belgium (44,100 pounds of Chilean origin; 22,000 pounds of Polish origin); 43,600 pounds from New Zealand. (9) 21,800 pounds of European Russian origin. (10) 250,400 pounds from Estonia (of European Russian origin). (11) From Belgium. (12) 146,500 pounds from Belgium; 55,000 pounds from European Russia; 100 pounds from Northern Ireland. (13) 343,300 pounds from Hungary; 252,100 pounds from Belgium; 4,500 pounds from Sweden. (14) 190,000 pounds from Lithuania; 68,100 pounds from Hungary. (15) 4,400 pounds of Northern Irish origin. (16) 13,200 pounds of Northern Irish origin. (17) Of Northern Irish origin. (18) 4,500 pounds from Germany (of Northern Irish origin). (19) Of Danish origin. (20) Partly of Polish origin. (21) Of Polish origin. (22) 300,700 pounds of Polish origin; 81,600 pounds of Hungarian origin. (23) 26,100 pounds of Polish origin; 11,000 pounds of Czechoslovakian origin. (24) 230,300 pounds of Polish origin; 2,300 pounds of Dutch origin. (25) 209,200 pounds of Polish origin. (26) 700 pounds of Polish origin. (27) 209,100 pounds of Polish origin. (28) 6,500 pounds of Polish origin; 4,500 pounds of Hungarian origin. (29) 4,200 pounds of Polish origin. (30) 31,100 pounds of Polish origin. (31) 1,100 pounds of Polish origin. (32) 14,200 pounds of Polish origin; 72,400 pounds from Hungary. (33) 96,600 pounds from Hungary; 32,900 pounds from Austria (of Czechoslovakian origin); 31,900 pounds from Italy; 26,500 pounds from Canada (25,000 pounds of Italian origin); 15,200 pounds from Belgium (of Polish origin); 100 pounds from Australia of New Zealand origin. (34) 87,200 pounds of Rumanian origin. (35) 39,600 pounds of Latvian origin; 13,400 pounds of Lithuanian origin. (36) 135,700 pounds of Swedish origin; 50,800 pounds of Polish origin; 22,100 pounds of Czechoslovakian origin; 22,000 pounds of Finnish origin; 22,000 pounds of Latvian origin. (37) 405,700 pounds of Finnish origin; 277,000 pounds of Swedish origin; 12,700 pounds American goods returned; 11,000 pounds of Lithuanian origin; 6,700 pounds of Polish origin. (38) 76,600 pounds of Finnish origin. (39) Of this 393,000 pounds were smooth brome seed (awnless brome grass). (40) Of this 768,400 pounds were smooth brome seed (awnless brome grass) and 118,400 pounds were mixture of seed of alsike and timothy. (41) Of this 269,700 pounds were Hungarian vetch seed.

Our Advertisers Made This Book Possible

USE THE STICKER!

(See Page Opposite 336)

and you will convince them that it was worth the effort.

FORAGE-PLANT SEEDS: IMPORTS OF FIVE KINDS NOT SUBJECT TO THE FEDERAL SEED ACT, BY COUNTRIES, 1931-37

Year ended June 30

Prepared from data from the Division of Seed Investigations, Bureau of Plant Industry.

BENTGRASS

Country from which imported	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Canada	2,500	[1]2,800	0	1,100	[2]1,000	400	200
Germany	65,400	151,600	23,000	35,400	1,500	3,800	0
Great Britain	100	100	100	100	100	[3]2,300	100
The Netherlands	19,600	12,100	4,700	8,000	3,400	7,300	16,000
New Zealand	125,200	159,900	24,100	14,100	5,300	13,400	5,400
Other countries	0	100	0	0	0	2,200	0
Total	212,800	326,600	51,900	58,700	11,300	29,400	21,700

CRESTED DOGTAIL

Great Britain	2,100	[4]4,100	[5]1,900	[6]4,400	[7]200	[8]3,500	0
Ireland	14,500	17,200	9,400	600	500	4,400	2,500
The Netherlands	7,900	1,300	2,000	0	0	1,300	300
New Zealand	15,600	3,600	2,400	700	11,300	0	9,900
Other countries	0	1,700	0	0	0	10,000	0
Total	40,100	27,900	15,700	5,700	12,000	19,200	12,700

CHEWINGS FESCUE

Great Britain	0	[9]3,200	[9]8,700	[9]102,800	[9]69,700	[9]22,700	[9]15,100
New Zealand	1,015,400	1,021,600	911,200	974,200	685,400	680,100	1,116,200
Other countries	[9]2,900	[9]5,600	0	0	0	0	300
Total	1,018,300	1,030,400	919,900	1,077,000	755,100	702,800	1,131,600

OTHER FESCUE

Country from which imported	1931 Pounds	1932 Pounds	1933 Pounds	1934 Pounds	1935 Pounds	1936 Pounds	1937 Pounds
Denmark	0	0	300	5,000	0	0	0
Germany	235,700	480,100	180,300	118,300	51,000	50,000	97,100
Great Britain	59,300	23,300	[10]22,300	[11]5,900	[12]100	[13]13,000	25,500
The Netherlands	83,500	68,300	103,900	39,600	300	[14]14,100	11,500
Other countries	0	800	200	0	0	0	200
Total	378,500	572,500	307,000	168,800	51,400	77,100	114,300

ROUGH BLUEGRASS

Denmark	290,000	408,800	380,600	376,800	274,100	466,600	391,600
Germany	48,400	105,200	[15]23,400	[16]17,700	0	0	0
Great Britain	27,000	18,800	1,500	[17]30,400	[18]15,800	2,200	[19]85,400
The Netherlands	10,600	20,300	21,100	1,100	2,200	0	600
Other countries	1,700	800	0	0	0	0	0
Total	377,700	553,900	426,600	426,000	292,100	468,800	477,600

[1]1,600 lbs. of New Zealand origin.
[2]Of German origin.
[3]2,200 lbs. of New Zealand origin.
[4]1,100 lbs. of Northern Irish origin.
[5]1,400 lbs. of Northern Irish origin.
[6]2,200 lbs. of New Zealand origin; 2,200 lbs. of Northern Irish origin.
[7]Of Northern Irish origin.
[8]2,200 lbs. of Northern Irish origin.
[9]Of New Zealand origin.
[10]11,000 lbs. of German origin; 11,000 lbs. of New Zealand origin.
[11]4,500 lbs. of German origin.
[12]Of Dutch origin.
[13]6,700 lbs. of New Zealand origin; 5,900 lbs. of German origin.
[14]300 lbs. of German origin.
[15]1,700 lbs. of Danish origin.
[16]2,000 lbs. of Danish origin.
[17]28,400 lbs. of Danish origin.
[18]15,500 lbs. of Danish origin.
[19]80,800 lbs. of Danish origin; 200 lbs. of Polish origin.

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TARIFF ON FARM SEEDS

(Rates in effect on January 1st, 1938)

Kind	*All-Favored Nations	Germany and Australia 1930 Rev. Act
Alfalfa	4c per lb.	8c per lb.
Barley, hulled or unhulled	20c bu. of 48 lbs.	20c per bu. of 48 lbs.
Bentgrass (genus agrostis)	40c per lb.	40c per lb.
Bluegrass	2½c per lb.	5c per lb.
Buckwheat hulled or unhulled	25c per 100 lbs.	25c per 100 lbs.
Canary grass (Phalaris canariensis)	1c per lb.	1c per lb.
Clover—Alsike	4c per lb.	8c per lb.
Clover—Crimson	2c per lb.	2c per lb.
Clover—Ladino	6c per lb.	6c per lb.
Clover—Red	5c per lb.	8c per lb.
Clover—Sweet	2c per lb.	4c per lb.
Clover—White	6c per lb.	6c per lb.
Clover—Not provided for	3c per lb.	3c per lb.
Corn or Maize, including cracked corn	25c per bu. of 56 lbs.	25c per bu. of 56 lbs.
Cotton	⅓c per lb.	⅓c per lb.
Cowpeas—Black-eye (Dried)	3c per lb.	3c per lb.
Cowpeas—Not specially provided for	Free	Free
Flax	65c per bu. of 56 lbs.	65c per bu. of 56 lbs.
Hemp	2c per lb.	2c per lb.
Millet	1c per lb.	1c per lb.
Oat grass—tall	5c per lb.	5c per lb.
Oats—hulled or unhulled	16c per bu. of 32 lbs.	16c per bu. of 32 lbs.
Orchard grass	5c per lb.	5c per lb.
Rape	2c per lb.	2c per lb.
Rice (Zinzania aquatica)	2c per lb.	2c per lb.
Rye	15c per bu. of 56 lbs.	15c per bu. of 56 lbs.
Ryegrass	3c per lb.	3c per lb.
Soybeans	2c per lb.	2c per lb.
Sunflower	2c per lb.	2c per lb.
Timothy	1c per lb.	2c per lb.
Vetch—Hairy	3c per lb.	3c per lb.
Vetches—Other	1½c per lb.	1½c per lb.
Wheat	42c per bu. of 60 lbs.	42c per bu. of 60 lbs.
Wheat—Unfit for human consumption	10% ad valorem	10% ad valorem
All other grasses and other forage crop seeds	2c per lb.	2c per lb.

*Rates apply to all countries except Germany and Australia.

TARIFF ON GARDEN SEEDS

(Rates in effect on January 1st, 1938)

Kind	*All-Favored Nations	Germany and Australia 1930 Rev. Act
Beans—Garden	3c per lb.	3c per lb.
Beet (except sugar)	3c per lb.	4c per lb.
Cabbage	6c per lb.	12c per lb.
Carrot	3c per lb.	4c per lb.
Cauliflower	25c per lb.	25c per lb.
Celery	2c per lb.	2c per lb.
Kale	3c per lb.	6c per lb.
Kohl rabi	8c per lb.	8c per lb.
Mangel wurzel	2c per lb.	4c per lb.
Onion	15c per lb.	15c per lb.
Onion Sets	2½c per lb.	2½c per lb.
Parsley	2c per lb.	2c per lb.
Parsnip	4c per lb .	4c per lb.
Peas—Garden	1¾c per lb.	1¾c per lb.
Pepper	15c per lb.	15c per lb.
Poppy	16c per 100 lbs.	32c per 100 lbs.
Radish	3c per lb.	6c per lb.
Rutabaga	4c per lb.	5c per lb.
Spinach	½c per lb.	1c per lb.
Turnip	4c per lb.	5c per lb.
All other garden seeds	3c per lb.	6c per lb.

*Rates apply to all countries except Germany and Australia.

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TARIFF ON BULBS, FLOWER, TREE AND SHRUB SEEDS

(Rates in effect on January 1st, 1938)

Kind	*All-Favored Nations	Germany and Australia 1930 Rev. Act
Tulip Bulbs	$3.00 per M	$6.00 per M
Hyacinth Bulbs	$4.00 per M	$4.00 per M
Lily Bulbs	$6.00 per M	$6.00 per M
Narcissus Bulbs	$6.00 per M	$6.00 per M
Crocus Corms	$1.00 per M	$2.00 per M
Lilly-of-the-Valley pips	$6.00 per M	$6.00 per M
All other bulbs, roots, root stocks, clumps, corms, tubers and herbaceous perennials	15% ad valorem	30% ad valorem
Flower Seeds	3c per lb.	6c per lb.
Tree and shrub seeds	8c per lb.	8c per lb.

*Rates apply to all countries except Germany and Australia.

TARIFF ON NURSERY STOCK

(Rates in effect on January 1st, 1938)

Kind	*All-Favored Nations	Germany and Australia 1930 Rev. Act
Seedlings and cuttings of Manetti, multiflora, brier, rugosa, and other rose stock, all the foregoing and not more than three years old	$1.00 per 1000	$2.00 per 1000
Rose plants, budded, grafted, or grown on their own roots	4c each	4c each
Seedlings, layers and cuttings of apple, cherry, pear, plum, quince, and other fruit stocks	$2.00 per 1000	$2.00 per 1000
Cuttings, seedlings, and grafted or budded plants of other deciduous or evergreen ornamental trees, shrubs, or vines, and all nursery or greenhouse stock, not specially provided for	25% ad valorem	25% ad valorem
Grafted or budded fruit trees, cuttings and seedlings of grapes, currants, gooseberries, or other fruit vines, plants or bushes	25% ad valorem	25% ad valorem

*Rates apply to all countries except Germany and Australia.

The New Improved Boerner Seed Sampler



Used and recommended by the Association of Official Seed Analysts of North America.

For accurately reducing a representative sample of seed. Maintains the proper proportions of the various factors in the original sample.

$55.00

F. O. B. CHICAGO

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FIELD SEED PRODUCTION IN THE UNITED STATES, 1926-37

(In thousands, i.e., 000 omitted)

Compiled by the Hay, Feed and Seed Division, Bureau of Agricultural Economics, U. S. Department of Agriculture.

Kind		1926	1927	1928	1929	1930	1931
Alfalfa	Unit Lbs.	56,490	50,280	39,234	59,610	72,918	52,464
Alsike clover	"	16,140	33,360	14,900	35,240	19,800	20,550
Crimson clover	"	175	300	350	350	500	1,000
Red clover	"	30,918	78,198	46,402	123,496	60,708	48,420
Sweet clover	"	62,262	70,692	54,114	68,760	45,942	48,450
White clover	"	1,500	1,700	1,200	1,500	1,200	1,000
Meadow fescue[2]	"	1,300	2,500	1,300	1,700	1,000	900
Redtop[2]	"	8,250	18,000	14,250	7,500	7,500	18,000
Sudan grass	"	25,000	37,000	34,000	30,000	23,000	50,000
Timothy	"	110,106	133,583	52,907	61,992	75,609	106,817
Lespedeza	"	3,342	3,928	3,845	5,446	5,586	14,095
Kentucky bluegrass[3]	Bus.	2,050	1,850	300	1,350	775	3,500
Orchard grass[4]	"	395	195	235	250	215	415
Soybeans	"	5,239	6,938	7,880	9,398	13,471	16,733
Cowpeas	"	4,583	6,105	4,124	3,639	4,040	7,921

Kind		1932	1933	1934	1935	1936	[1]1937
Alfalfa	Unit Lbs.	37,248	64,434	66,156	60,252	53,268	56,634
Alsike clover	"	21,430	21,760	18,150	21,448	28,138	18,754
Crimson clover	"	1,200	1,500	1,000	1,500	1,000	1,500
Red clover	"	65,684	66,698	44,880	48,740	42,206	28,130
Sweet clover	"	40,290	40,860	38,904	41,934	46,200	57,246
White clover	"	775	900	900	300	500	300
Meadow fescue[2]	"	600	550	550	900	400	450
Redtop[2]	"	15,750	7,500	6,000	9,750	6,750	18,000
Sudan grass	"	14,000	20,000	17,600	55,000	35,000	40,000
Timothy	"	73,332	41,873	12,020	191,106	41,706	105,737
Lespedeza	"	21,834	47,566	68,068	60,510	38,364	99,165
Kentucky bluegrass[3]	Bus.	1,400	1,300	400	2,700	1,500	4,500
Orchard grass[4]	"	140	275	175	265	125	300
Soybeans	"	14,975	13,147	23,095	44,378	29,983	40,997
Cowpeas	"	7,235	6,790	6,147	6,971	7,720	8,822

[1]—Preliminary.
[2]—Recleaned seed.
[3]—Rough, cured seed.
[4]—Thresher-run seed.

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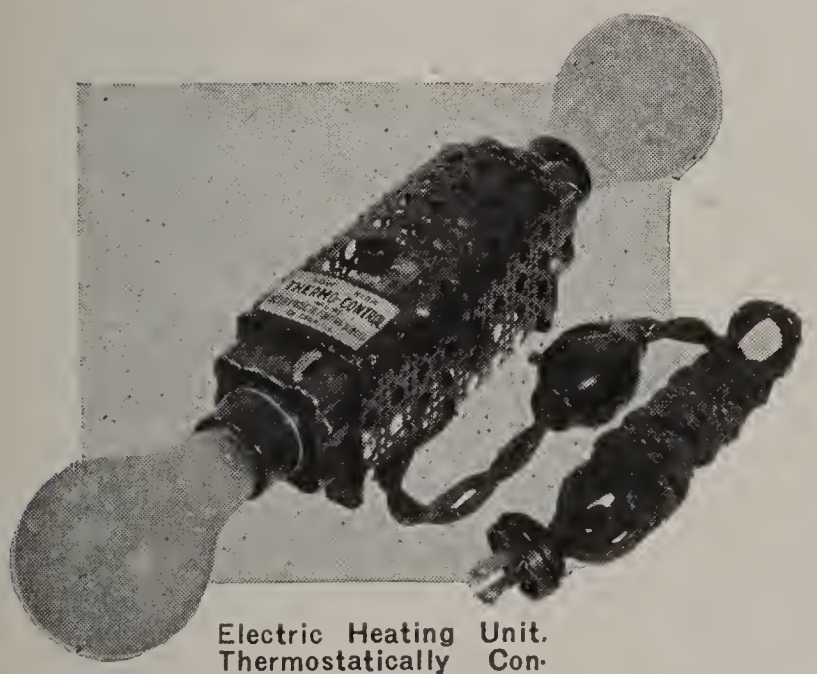
The Sho-Gro Germinator

with

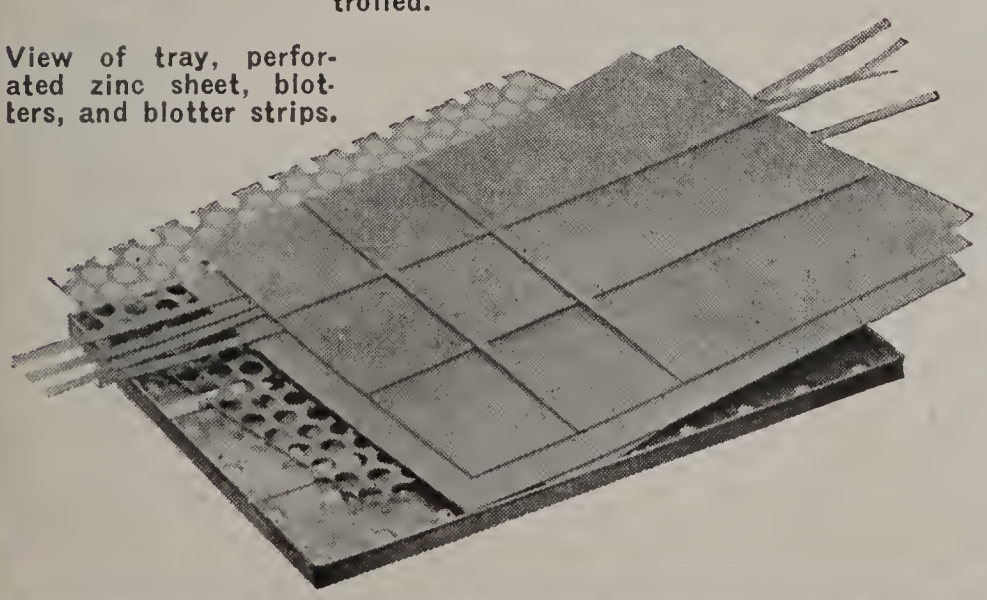
Thermostatically Controlled Electric Heating Unit



Sho-Gro Germinator



Electric Heating Unit. Thermostatically Controlled.



View of tray, perforated zinc sheet, blotters, and blotter strips.

SEEDBURO QUALITY TRADE MARK

The Sho-Gro Germinator will test all kinds and sizes of seeds. It reduces the normal time required for germination from one to three days. Results correspond with Government tests.

This germinator is constructed of non-rusting metal and glass. It consists of a stand, heating drum, and glass enclosed germinating chamber, containing five trays. The trays are equipped with specially prepared blotters, approved by the U. S. Department of Agriculture for seed germination tests.

Present Sho-Gro users will want to equip their germinator with the new thermostatically controlled electric heating unit.

SHO-GRO GERMINATOR PRICES

No. 86—Sho-Gro, with Kerosene Heating Unit **$22.00**

No. 88—Sho-Gro, with Thermostatically Controlled Electric Heating Unit . . **32.00**

Thermostatic Electric Heating Unit Only, Complete **12.00**

Prices FOB Chicago

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CLOVER SEED, RED AND ALSIKE: PRODUCTION BY STATES, 1930-37

State	1930 Red	1930 Alsike	1931 Red	1931 Alsike	1932 Red	1932 Alsike	1933 Red	1933 Alsike	1934 Red	1934 Alsike	1935 Red	1935 Alsike	[1] 1936 Red	[1] 1936 Alsike	[1] 1937 Red	[1] 1937 Alsike
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
New York	[2] 324		[2] 840		[2] 624		[2] 864		[2] 432		21,440		21,170		[2] 630	
Pennsylvania	[2] 672		[2] 432		[2] 960		[2] 720		21,260		21,080		21,092		[2] 348	
Ohio	2,040	3,060	6,048	7,392	7,776	5,184	6,833	4,555	8,820	5,880	5,518	4,514	7,398	9,042	2,808	3,432
Indiana	7,980	420	7,951	419	16,416	864	7,182	378	8,977	473	9,029	475	4,536	1,512	1,296	432
Illinois	6,804	756	7,905	1,395	7,425	825	8,262	918	6,120	1,080	5,250	2,250	7,560	1,890	1,296	324
Michigan	6,088	2,030	4,320	1,440	8,064	2,688	9,477	3,159	3,118	1,040	3,791	2,041	6,213	3,345	3,838	2,066
Wisconsin	6,451	4,301	2,192	940	1,611	537	4,570	1,143	2,192	1,180	6,834	1,206	2,424	2,424	1,155	1,155
Minnesota	4,032	7,488	1,228	2,864	2,455	5,729	4,493	6,739	788	4,462	1,688	5,062	2,160	5,040	1,307	3,049
Iowa	[2] 8,262		[2] 4,704		4,277	1,069	10,454	1,162	1,296	144	1,555	173	684	228	270	90
Missouri	[2] 4,800		[2] 2,580		[2] 2,700		3,208	32	[2] 630		22,880		454	554	621	759
North Dakota	[2] 216		[2] 48		[2] 84		101	187	[2] 36		[2] 42					
Nerbaska	21,560		[2] 1,008		[2] 1,170		[2] 1,596		[2] 216		[2] 156		99	99		
Kansas	21,344		[2] 672		[2] 792		678	36	[2] 324		[2] 252		199	11	51	3
Maryland	[2] 420		[2] 54		[2] 2,520		[2] 864		21,500		23,150		21,584		22,376	
Virginia	[2] 210				[2] 1,944		[2] 198		[2] 324		[2] 468		[2] 162		[2] 360	
Kentucky	[2] 330		[2] 126		[2] 360		[2] 540		21,392		[2] 684		120	120	270	270
Tennessee	[2] 432		[2] 264		[2] 546		[2] 330		[2] 420		[2] 504					
Idaho	6,293	331	5,616	624	6,804	756	5,330	592	5,400	600	4,794	846	5,630	994	6,452	1,138
Wyoming	[2] 492		[2] 312		[2] 468		[2] 540		[2] 348		[2] 324					
Colorado	[2] 600		[2] 540		[2] 360		279	15	[2] 90		[2] 150					
Oregon	1,802	970	3,881	3,175	737	1,369	1,210	1,814	3,142	1,346	1,613	2,419	2,160	1,440	6,653	4,435
United States[3]	60,708	19,800	48,420	20,550	65,684	21,430	66,698	21,760	44,880	18,150	48,740	21,448	42,206	28,138	28,130	18,754

[1] Preliminary. [2] Red and Alsike. [3] Estimated production for each kind of seed.

Prepared from data from Crop and Livestock Estimate and Hay, Feed and Seed Divisions, U. S. Dept. of Agriculture.

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Poa Bulbosa
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Perennial Rye Grass
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Astoria Bent Grass
Oregon Highland Bent
Reed Canary Grass

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SALEM OREGON

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TIMOTHY SEED: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926-35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
New York	[2] 196	207	252	189	135								
Pennsylvania	692	702	1,175	882	562	468	558	450	630	518	972	518	216
Ohio	6,690	14,535	14,985	6,480	4,464	1,697	6,840	3,312	2,835	1,287	10,463	3,159	8,784
Indiana	3,002	4,050	3,600	1,350	1,255	378	3,267	1,931	1,913	1,449	10,823	1,296	6,993
Illinois	9,777	12,960	21,060	8,775	7,254	5,625	9,266	6,669	5,900	1,539	18,720	3,510	8,874
Wisconsin	1,688	1,710	3,533	585	1,435	3,478	1,967	711	302	193	2,970	621	1,845
Minnesota	6,031	6,615	7,560	1,998	7,560	8,316	7,074	5,985	3,519	2,678	9,000	4,900	4,347
Iowa	44,971	54,900	57,645	20,250	27,720	45,576	57,469	40,297	21,064	2,961	121,823	24,300	56,700
Missouri	12,084	13,252	21,262	10,224	10,413	9,112	19,800	13,608	5,616	1,350	16,200	3,312	17,820
North Dakota	322	270	1,260	315	392	338	225	144	94	45	135	90	158
South Dakota	[3] 706	540	1,008	1,634	563	621	351	225					
Kansas	[2] 268	365	243	225	239								
United States	85,935	110,106	133,583	52,907	61,992	75,609	106,817	73,332	41,873	12,020	191,106	41,706	105,737

[1] Preliminary.
[2] Four-year average.
[3] Seven-year average.
Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

SWEET CLOVER SEED: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926-35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Ohio	947	1,176	1,296	840	900	696	720	1,044	750	1,152	900	1,440	1,518
Indiana	455	540	900	450	360	324	360	540	240	450	384	750	600
Illinois	2,449	2,700	3,240	2,730	2,880	2,772	2,028	1,950	2,400	2,040	2,250	2,484	3,024
Wisconsin	[2] 605					1,200	354	222	594	330	324	456	1,134
Minnesota	14,309	12,150	12,000	7,380	14,310	8,640	12,300	15,738	17,520	20,250	22,800	26,376	31,464
Iowa	3,244	4,320	8,772	3,456	1,782	1,944	2,520	1,152	2,160	3,840	2,496	2,112	5,346
Missouri	614	810	972	690	1,200	900	450	276	312	288	240	828	780
North Dakota	10,460	15,840	13,860	11,100	22,080	9,576	11,520	6,900	5,508	3,420	4,800	4,320	5,544
South Dakota	8,108	8,406	11,994	16,254	15,480	9,546	9,000	4,830	2,592	642	2,340	2,484	3,450
Nebraska	3,965	5,184	4,608	4,278	3,960	3,720	4,752	2,610	4,524	3,750	2,268	2,070	1,296
Kansas	4,166	7,104	8,526	4,176	3,564	4,374	3,276	3,888	3,078	1,800	1,872	1,080	1,200
Montana	864	1,632	1,224	1,260	1,140	1,200	120	192	450	582	840	780	750
Wyoming												540	540
Colorado	1,286	2,400	3,300	1,500	1,104	1,050	1,050	948	732	360	420	480	600
United States	51,221	62,262	70,692	54,114	68,760	45,942	48,450	40,290	40,860	38,904	41,934	46,200	57,246

[1] Preliminary.
[2] 6-year average.
Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

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SOYBEANS: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926–35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937[1]
	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.
New York										14	14	13	17
Pennsylvania										33	33	30	96
Ohio	695	207	304	360	347	434	940	527	528	697	2,604	2,046	3,249
Indiana	2,305	529	884	1,000	1,425	2,114	3,115	2,256	1,800	2,960	6,970	4,186	5,797
Illinois	7,667	1,750	2,392	3,069	3,842	6,970	7,704	7,760	5,415	13,756	24,012	17,216	22,800
Michigan	67	29	16	30	20	10	36	117	96	84	232	180	224
Wisconsin	25	33	10	25	22	23	20	36	34	24	26	20	39
Iowa	1,439	150	276	357	576	1,023	790	936	1,615	2,070	6,600	2,548	4,236
Missouri	772	398	504	722	736	700	954	890	1,188	737	889	245	486
Kansas	57	40	36	44	36	52	108	80	94	35	46	24	32
Delaware	198	112	224	221	210	90	196	160	238	289	238	221	352
Maryland	63	54	42	38	60	32	94	72	91	86	60	60	102
Virginia	241	238	261	260	273	119	266	171	225	284	308	264	324
West Virginia	23	26	28	11	24	15	24	28	24	26	21	11	12
North Carolina	1,170	1,062	1,200	1,080	1,050	1,164	1,485	1,155	1,045	1,176	1,282	1,475	1,560
South Carolina	50	35	42	63	49	58	55	63	58	24	49	65	54
Georgia	48	60	57	32	44	60	68	42	35	42	42	68	74
Kentucky	79	63	54	50	80	68	121	115	76	90	76	86	84
Tennessee	131	100	72	128	128	150	195	147	142	129	120	133	225
Alabama	42	18	30	24	42	40	43	42	50	60	66	144	126
Mississippi	169	114	190	104	108	78	225	168	153	213	340	504	400
Arkansas	104	38	62	60	74	49	114	98	162	161	225	210	530
Louisiana	125	153	189	128	196	158	120	82	56	82	85	207	136
Oklahoma	43	30	65	74	56	64	60	30	22	6	20	12	28
United States	15,525	5,239	6,938	7,880	9,398	13,471	16,733	14,975	13,147	223,095	244,378	229,983	240,997

[1] Preliminary.

[2] Includes production in Texas.

Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

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COWPEAS: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926–35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.
Indiana	93	189	160	48	81	42	57	48	64	108	132	48	54
Illinois	476	476	448	376	315	299	684	662	476	448	574	266	432
Missouri	122	133	189	176	153	94	171	98	96	60	48	18	112
Kansas	7	9	10	9	8	6	6	6	6	5	6	4	8
Delaware	19	39	52	28	8	6	11	10	13	15	12	10	12
Maryland	10	16	8	12	8	5	8	8	8	14	8	8	9
Virginia	89	104	120	80	66	42	94	84	85	110	105	90	116
North Carolina	333	336	450	225	128	240	450	392	425	322	360	385	495
South Carolina	819	516	852	600	470	612	948	990	960	1,028	1,212	1,374	1,248
Georgia	754	630	920	540	367	490	948	1,067	1,032	696	845	1,110	1,014
Florida	80	63	72	48	68	86	96	94	77	105	88	68	86
Kentucky	74	81	112	74	60	26	80	108	72	72	56	51	68
Tennessee	162	124	168	138	138	143	216	212	165	182	135	166	192
Alabama	608	252	536	308	330	402	840	905	770	880	852	1,241	1,512
Mississippi	463	412	468	248	294	330	637	454	474	693	616	836	906
Arkansas	473	332	484	360	301	275	654	675	664	415	574	582	805
Louisiana	251	184	300	198	144	180	272	342	320	264	304	301	394
Oklahoma	175	119	153	184	175	132	304	240	175	110	156	40	202
Texas	750	568	603	472	525	630	1,445	840	908	620	888	1,122	1,157
United States	5,756	4,583	6,105	4,124	3,639	4,040	7,921	7,235	6,790	6,147	6,971	7,720	8,822

[1] Preliminary.

Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

LESPEDEZA (JAPAN CLOVER) SEED: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926–35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Illinois	[2] 2,475									3,000	1,950	300	2,375
Missouri	[2] 3,375									3,500	3,250	1,000	7,770
Virginia	[3] 2,940						600	1,100	2,500	6,500	4,000	3,200	6,750
North Carolina	[4] 8,048			400	1,650	2,400	6,000	8,280	10,400	19,610	15,640	13,800	38,740
Kentucky	[5] 8,874		200	100	420	800	2,875	6,900	22,400	22,575	23,600	13,200	26,400
Tennessee	5,402	990	2,200	2,200	2,544	1,800	3,640	4,900	11,716	12,320	11,712	6,270	16,530
Mississippi	373	672	826	495	450	202	392	228	200	138	126	168	300
Louisiana	582	1,680	702	650	382	384	588	426	350	425	232	426	300
United States[6]	23,422	3,342	3,928	3,845	5,446	5,586	14,095	21,834	47,566	68,068	60,510	38,364	99,165

[1] Preliminary. [2] Two-year average. [3] Five-year average. [4] Eight-year average. [5] Nine-year average. [6] Data insufficient for preparing estimates for all years and for other states.

Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

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ORCHARD GRASS SEED PRODUCTION, BY DISTRICTS, 1925-37

Compiled by Hay, Feed and Seed Division, Bureau of Agricultural Economics, U. S. Department of Agriculture.

District	PRODUCTION[1]												
	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[2]1937
	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.
Ky., Ohio and Ind.	40	150	75	50	55	50	200	75	100	75	125	75	200
Mo. and Ark.	55	200	70	125	140	125	175	25	40	25	18	10	10
Virginia	50	45	50	60	55	40	40	40	135	75	120	35	75
United States	145	395	195	235	250	215	415	140	275	175	263	120	285

[1] Thresher-run seed. [2] Preliminary.

KENTUCKY BLUEGRASS SEED PRODUCTION, BY DISTRICTS, 1921-37

Compiled by Hay, Feed and Seed Division, Bureau of Agricultural Economics, U. S. Department of Agriculture.

District	PRODUCTION[1]																
	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[2]1937
	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.	1,000 bush.
Kentucky	175	700	650	325	100	1,300	450	75	450	125	2,300	400	600	175	900	250	1,500
Western	200	550	550	450	435	750	1,400	225	900	650	1,200	1,000	700	225	1,800	1,250	4,000
Total	375	1,250	1,200	775	535	2,050	1,850	300	1,350	775	3,500	1,400	1,300	400	2,700	1,500	5,500

[1] Rough, cured seed. [2] Preliminary.

SUNFLOWER SEED PRODUCTION BY STATES, AND IMPORTS, 1920-37

State	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
California	1,300	325	700	2,000	800	1,000	1,000	3,000	4,225	4,500	250	1,700	2,800	2,800	3,500	3,200	5,100	5,750
Illinois	1,664	1,234	1,717	3,261	3,723	2,993	3,012	4,347	9,824	8,900	190	1,000	850	300	1,500	350	350	300
Missouri	4,000	2,240	3,900	5,880	3,300	3,520	3,995	3,053	2,109	2,700	450	250	750	800	1,000	750	1,000	1,250
United States	6,964	3,799	6,317	11,141	7,823	7,513	8,007	10,400	16,158	16,100	890	2,950	4,400	3,900	6,000	4,300	6,450	7,300
Imports			[2]13	5.678	1.089	431	249	987	2,300	1,621	248	409	598	145	276	667	514	[3]496

[1] Preliminary. [2] September 22 to December 31. Figures not available prior to Tariff Act effective September 22, 1922. [3] Imports for first 9 months.
Imports from Bureau of Foreign and Domestic Commerce, Department of Commerce.

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ALFALFA SEED: PRODUCTION BY STATES, AVERAGE 1926-35, ANNUAL 1926-37

State	Average 1926–35	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Ohio	[2] 751				126	420	270	1,440	720	1,560	720	4,950	120
Indiana	[2] 194				60	198	42	66	288	540	162	1,260	78
Michigan	[2] 1,748				258	1,080	2,772	1,188	2,964	2,244	1,728	5,220	3,888
Wisconsin	[2] 1,148				96	1,560	1,140	732	2,520	1,800	240	1,662	2,052
Minnesota	2,371	528	324	348	2,028	2,970	2,574	3,264	4,860	3,120	3,690	6,210	5,628
Iowa	[2] 410				126	96	96	180	672	1,260	438	2,340	840
North Dakota	1,104	816	432	432	3,120	1,440	756	972	1,380	612	1,080	468	960
South Dakota	3,518	6,708	1,680	2,652	8,316	5,688	3,120	1,872	2,916	1,212	1,020	672	840
Nebraska	3,346	2,106	1,596	810	3,264	3,108	2,880	2,268	4,968	6,840	5,616	5,400	4,104
Kansas	6,292	6,840	1,170	1,224	5,076	9,372	6,588	3,528	10,764	10,476	7,884	3,360	3,672
Oklahoma	3,284	1,710	1,656	1,560	2,376	3,720	3,750	3,300	3,450	5,940	5,376	2,850	5,460
Texas	542	750	1,728	240	594	438	276	300	372	360	360	384	1,008
Montana	5,758	6,174	4,428	6,600	8,664	10,764	3,024	1,716	9,000	4,560	2,652	600	960
Idaho	7,211	5,940	10,836	3,024	7,308	8,448	5,940	4,050	4,872	10,716	10,974	2,520	5,040
Wyoming	1,947	1,188	600	2,700	1,596	5,208	1,440	1,680	1,890	1,152	2,016	2,550	2,856
Colorado	1,622	864	612	360	2,958	3,870	1,746	1,500	1,500	1,080	1,728	1,350	2,100
New Mexico	814	1,476	1,368	1,152	768	756	612	612	672	408	318	480	996
Arizona	5,418	3,960	4,800	5,940	3,678	6,600	7,200	4,800	4,500	6,222	6,480	4,800	7,800
Utah	6,206	14,880	15,894	8,880	5,100	2,520	3,456	1,080	1,980	3,564	4,710	3,168	3,864
Oregon	461	180	360	540	678	540	540	450	450	240	630	504	900
California	3,040	2,370	2,796	2,772	3,420	4,176	4,242	2,250	3,696	2,250	2,430	2,520	3,468
United States	55,909	56,490	50,280	39,234	59,610	72,918	52,464	37,248	64,434	66,156	60,252	53,268	56,634

[1] Preliminary. [2] Seven-year average.
Division of Crop and Livestock Estimates, U. S. Dept. of Agriculture.

SUGAR-BEET SEED: IMPORTS BY COUNTRIES, 1918-36

Country from which imported	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Austria	0	0	0	[1]	0	90	20	0	0	0	0	0	0	0	0	0	0	0	0
Canada	996	[1]	78	0	0	148	147	144	232	355	160	476	66	88	[1]	2	0	0	66
Czechoslovakia	0	0	0	1	0	0	0	0	33	410	1,351	1,719	1,538	869	2,593	2,692	392	598	882
Denmark	0	942	4,588	1,824	782	1,085	919	713	846	635	369	300	594	893	1,355	1,754	870	467	391
France	3	86	5	12	[1]	1	27	69	102	0	0	66	[1]	0	0	0	2	0	0
Germany	0	5,647	9,415	2,807	2,127	12,534	6,306	10,660	8,700	11,583	10,630	12,651	11,795	11,575	16,022	14,946	12,924	9,392	8,517
Netherlands	0	3,037	8,821	3,059	2,684	1,802	3,350	469	226	118	75	39	5	38	67	59	554	249	29
Poland and Danzig	0	0	31	0	0	1	268	414	318	228	374	215	464	450	873	795	985	596	897
Soviet Russia in Asia	286	40	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	[2]	[2]
Soviet Russia in Europe	1,839	0	0	0	0	0	41	0	0	2	58	34	3	1	0	0	0	46	66
Sweden	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	25	78	122	21	9	3	3	3	0	3	6	3	6	4	3	29	29	1	2
Other countries	1,148	0	376	0	0	2	0	0	333	3	0	0	0	44	0	0	[1]	0	110
Total	4,297	9,830	23,446	7,726	5,603	15,666	11,082	12,472	10,790	13,379	13,023	15,503	14,471	13,962	20,913	20,277	15,756	11,349	10,960

[1] Less than 500 pounds. [2] All of Russia recorded under Soviet Russia of Europe.
Compiled from Foreign Commerce and Navigation of the United States.

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BUY TIMOTHY

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ALFALFA SEED EXPORTS FROM THE UNITED STATES, BY MONTHS 1922-37

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1922	102,578	162,701	241,415	220,193	42,795	8,250	43,916	45,272	65,766	24,495	18,089	49,659	1,025,129
1923	23,977	58,591	28,267	17,114	22,524	2,027	12,313	27,317	103,565	68,459	24,152	11,040	399,346
1924	15,506	17,649	12,557	8,248	8,945	3,050	2,897	21,226	56,417	53,258	146,131	17,385	363,269
1925	22,358	45,910	25,369	7,806	2,701	1.990	48,669	181,018	141,241	245,629	101,656	508,645	1,332,992
1926	103,599	24,898	17,704	27,698	14,282	2,962	7,880	18,330	92,222	203,393	77,414	151,134	741,516
1927	185,827	154,543	362,841	16,169	12,661	6,485	15,125	152,410	87,829	49,028	128,762	221,794	1,393,474
1928	85,370	53,194	54,674	59,622	24,861	9,280	9,975	119,021	187,319	65,102	38,253	75,249	781,920
1929	95,584	9,577	67,602	141,753	6,407	1,023	14,817	61,693	194,960	150,950	23,111	58,353	825,830
1930	260,630	172,480	125,307	13,494	2,766	745	3,075	114,711	44,509	48,394	44,407	2,447	832,965
1931	42,943	26,267	18,270	5,422	371	5,170	3,324	7,410	11,404	6,190	8,782	82,491	218,044
1932	7,319	72,909	6,366	3,015	1,550	2.150	5,078	12,613	60,828	40,501	604,391	747,921	1,564,641
1933	175,858	32,587	33,993	1,635	8,478	1,780	8,114	101,112	32,783	115,725	189,577	497,154	1,198,796
1934	311,699	212,760	18,986	9,135	20,166	3,100	54,736	105,848	71,157	67,096	57,033	27,185	958,901
1935	24,431	18,427	26,679	13,549	7,234	3,603	7,475	49,234	93,350	144,384	81,481	39,150	508,997
1936	58,360	14,259	19,995	4,620	12,313	1,069	11,116	15,418	85,329	34,216	10,539	16,339	283,573
1937	41,341	2,455,581	20,666	10,401	5,611	1,450	7,969	58,123	152,685				12,753,827

1—9 months ended September.

Compiled from Monthly Summary of Foreign Commerce of the United States.

ALFALFA SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1923-36

Country to which exported	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Argentina	0	0	758,134	43,325	240	0	0	425	485	5,428	100	0	0	0
Australia	347	0	1,050	15,827	0	0	120	0	0	0	0	450	0	0
Belgium	0	0	0	0	0	0	0	0	0	44,222	115,280	9,980	0	0
Bolivia	0	0	3,000	10,180	6,900	48,279	13,040	2,200	110	0	5,000	600	0	300
Canada	69,432	951	1,240	28,949	643	141,782	311,355	479,118	6,377	499	366	94,106	2,111	1,989
Denmark	0	325	0	195,942	224,930	17,840	13,455	38,289	81,696	0	35,831	130,780	4,000	3,500
France	120	67,204	4,198	68,699	401,280	32,132	3,477	0	0	1,193,286	590,648	77,000	0	0
Germany	6,872	0	5,097	2,010	4,224	4,108	2,628	3,688	4,609	34,208	0	11,737	0	0
Italy	15,390	0	0	0	115	190	2,236	0	0	0	121,000	219,676	0	0
Mexico	302,172	255,023	544,859	339,039	520,272	516,161	471,556	294,036	105,263	199,214	271,500	365,251	482,954	218,003
Netherlands	442	0	0	0	0	0	0	0	0	0	36,800	88	0	0
Soviet Russia in Europe	0	132	0	600	186,983	300	900	2,540	0	60,038	0	0	2,265	0
Sweden	30	1,161	6,831	28,040	21,300	13,200	100	0	10,000	60	0	20,000	0	31,080
United Kingdom	113	27,128	30	1,140	10,553	128	0	3,614	1,282	0	13,085	2,250	0	0
Other countries	4,428	11,345	8,553	7,765	16,034	7,800	6,963	9,055	8,222	27,686	9,186	26,983	17,667	28,701
Total	399,346	363,269	1,332,992	741,516	1,393,474	781,920	825,830	832,965	218,044	1,564,641	1,198,796	958,901	508,997	283,573

Compiled from Foreign Commerce and Navigation of the United States.

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RED CLOVER SEED EXPORTS FROM THE UNITED STATES, BY MONTHS 1922-37

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1922	199,127	309,353	115,632	75,197	21,856	25,709	10,611	1,622	145,805	398,429	354,131	358,419	2,015,891
1923	296,217	105,542	57,204	26,010	83,531	1,574	38,040	6,379	539	38,604	23,236	123,674	800,550
1924	15,510	10,097	8,368	1,760	34,323	190	2,228	885	38,009	157,019	175,557	72,279	516,225
1925	95,985	103,688	4,808	15,777	9,294	2,746	19,925	0	5,386	83,549	7,051	67,712	415,921
1926	37,945	44,435	167,639	55,613	3,008	204	1,120	98	0	68,012	75,941	129,965	583,980
1927	102,145	287,172	154,203	34,323	14,024	9,467	240	55	22,737	394,246	176,714	84,541	1,279,867
1928	77,893	107,954	83,734	2,940	0	1,890	7,720	29,763	30,051	33,684	4,480	75,629	455,738
1929	37,073	32,310	41,059	34,364	100	500	0	0	103,318	141,793	101,225	31,793	523,535
1930	106,040	78,072	15,627	70,987	62,360	0	22	0	7,940	35,410	37,966	121,048	535,472
1931	52,276	30,200	146,288	201,807	5,580	0	1,000	0	86,458	113,008	8,064	25,623	670,304
1932	3,015	48,295	34,757	13,093	4,944	4,828	0	0	75,168	21,408	5,029	87,362	297,899
1933	0	5,133	40,110	800	3,115	0	0	0	474,701	1,027,152	976,882	497,545	3,025,438
1934	209,394	28,045	75,263	26,460	66,682	43,254	162,138	230,130	180,992	33,000	36,262	0	1,091,620
1935	17,022	1,900	15,975	5,077	3,780	0	0	187	16,711	228,500	300	21,985	311,437
1936	26,100	10,250	25,769	28,347			11,867	300	800	13,998	600	7,240	125,271
1937	2,200	0	46,691	42,964	0	0	0	41,241	60,347	0	0	0	[1]193,443

[1] 9 months ended September.

Compiled from Monthly Summary of Foreign Commerce of the United States.

RED CLOVER SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1923-36

Country to which exported	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Australia	6,804	0	0	0	2,240	18,074	0	0	0	0	0	0	0	0
Belgium	0	0	43,900	0	6,683	0	16,309	0	0	0	234,325	172,633	0	2,200
Canada	335,042	183,924	178,923	467,190	687,923	211,535	58,051	170,688	488,656	87,333	805	121,229	6,232	9,341
Denmark	160,724	15,764	0	122	16,838	28,773	44,331	11,338	0	0	11,000	16,314	6,785	6,770
France	33,887	6,684	0	4,400	41,140	2,996	8,860	21,701	0	0	976,450	235,684	11,000	0
Germany	88,945	78,554	80,458	11,313	182,135	164,188	117,005	206,678	49,103	76,172	230,330	120,672	20,537	10,975
Netherlands	16,786	0	22,125	4,200	2,287	13,429	63,628	51,609	0	0	2,500	0	20,780	22,380
New Zealand	38,500	4,708	2,880	1,120	6,140	9,000	0	114	1,142	20,340	11,200	175,682	6,990	2,427
United Kingdom	114,940	224,970	86,523	91,782	333,616	2,313	203,133	55,150	116,065	100,545	1,420,162	195,514	184,293	34,986
Other countries	4,922	1,621	1,112	3,853	865	5,430	[1]12,218	[2]18,194	15,338	13,509	[3]138,666	53,892	[4]54,820	[5]36,192
Total	800,550	516,225	415,921	583,980	1,279,867	455,738	523,535	535,472	670,304	297,899	3,025,438	1,091,620	311,437	125,271

[1] 11,000 pounds to Poland and Danzig. [2] 17,603 pounds to Japan. [3] 83,616 pounds to Japan; 22,000 pounds to Austria, and 33,000 pounds to Italy. [4] 51,823 pounds to Japan. [5] 32,050 pounds to Japan.

Compiled from Foreign Commerce and Navigation of the United States.

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EXPORTS OF ALFALFA, CLOVER AND TIMOTHY SEED

1910-37, In Pounds

(Compiled from Foreign Commerce and Navigation of the United States, by the Hay, Feed and Seed Division, Bureau of Agricultural Economics, U. S. Department of Agriculture.)

Year	Alfalfa	Red clover[1]	Clover, other than red	Timothy	Other grass seeds
1910	.....	4,758,406	.....	18,044,488	.....
1911	.....	2,407,145	.....	7,893,121	.....
1912	.....	3,222,963	.....	11,111,807	.....
1913	.....	4,965,994	.....	13,542,705	5,062,473
1914	.....	6,659,971	.....	13,688,707	4,666,000
1915	.....	9,527,258	.....	17,646,273	3,668,694
1916	.....	6,049,990	.....	12,428,140	4,120,544
1917	.....	8,738,668	.....	13,880,725	5,426,305
1918	.....	5,985,526	.....	8,564,384	2,952,193
1919	.....	7,943,749	.....	13,346,358	4,440,490
1920	.....	4,985,695	.....	13,522,134	4,252,152
1921	.....	5,734,754	.....	19,901,945	5,171,563
1922	1,025,129	2,015,891	2,477,902	18,120,790	4,198,992
1923	399,346	800,550	859,531	18,870,181	4,004,157
1924	363,369	516,225	1,131,845	16,535,051	4,070,332
1925	1,332,992	415,921	721,298	12,484,598	5,605,583
1926	741,516	583,980	1,168,945	13,685,157	5,888,540
1927	1,393,474	1,279,867	792,734	16,669,986	5,659,642
1928	781,920	455,738	389,951	12,220,398	5,257,668
1929	825,830	523,535	427,492	9,195,022	8,194,009
1930	832,965	535,472	708,979	15,828,571	6,419,390
1931	218,044	670,304	256,818	10,476,344	5,189,679
1932	1,564,641	297,899	318,867	10,890,662	3,509,375
1933	1,198,796	3,025,438	133,863	5,009,247	3,957,223
1934	958,901	1,091,620	1,769,465	3,698,220	5,305,850
1935	508,997	311,437	774,667	3,424,716	4,420,259
1936	283,573	125,271	99,065	4,002,606	4,473,151
1937[2]	2,753,827	193,443	37,593	738,071	2,990,477

[1] Including all clover 1910-21. [2] Nine months ended September 30, 1937.



The **GUSTAFSON**
SEED GRAIN TREATER

FOR ELEVATORS, SEED HOUSES, COTTON GINS AND FARMS

Outstanding Features:

Specially designed for use of Ceresan, Semesan Jr., Copper Carbonate, Bar Bak, Basul, and other chemical powders.
For treating wheat, barley, oats, corn, cotton and garden seeds — or any other seed.
A fast convenient way to inoculate soy beans, peas, alfalfa, clover and all kinds of seed.
Also used for conditioning barley, wheat and oats. Higher test weight — improves sample. A satisfactory seed and grain mixer.
All metal construction.
Durable aluminum finish.
Powered by electric motor or belt pulley used with gas engine.
Accurate powder feed — high speed, force feed eliminates packing of chemical powder.

$78.00 F.O.B. Factory

SEED TRADE REPORTING BUREAU, Inc.

223 W. Jackson Blvd. CHICAGO, ILL.

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VEGETABLE SEED IMPORTS FOR CONSUMPTION INTO UNITED STATES, 1920-37

Kind of seed	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	[1]1937
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
Beet, garden	238	257	272	335	423	421	390	327	339	356	344	351	179	572	362	421	280	125
Beet, mangel-wurzel			79	125	298	345	412	229	249	224	318	367	138	245	182	319	290	149
Cabbage	391	253	181	181	210	321	327	275	245	129	342	250	172	174	193	304	400	90
Carrot	69	48	37	42	134	53	58	29	55	23	21	16	34	60	29	19	16	9
Cauliflower	17	12	13	14	14	18	22	17	15	15	19	18	13	11	12	17	12	7
Kale	77	40	25	35	50	71	65	48	60	67	73	42	49	48	84	66	74	21
Kohlrabi	23	14	10	16	13	22	15	12	15	13	15	19	12	15	14	24	13	4
Onion			7	118	104	209	361	252	272	172	204	190	230	160	210	252	195	16
Parsley	180	151	144	68	147	376	296	96	434	151	349	308	179	44	99	231	95	9
Parsnip	17	57	40	19	58	44	42	32	18	15	18	16	13	24	21	15	13	5
Pepper	2	9	4	3	3	4	6	4	3	2	2	4	1	1	4	1	1	1
Radish	320	213	272	350	651	758	1,011	742	589	521	873	696	565	445	341	384	475	238
Rutabaga	2	2	61	152	201	335	386	201	234	43	178	170	93	288	125	127	97	24
Spinach		1,222	1,927	2,017	2,686	2,958	2,472	2,086	3,992	3,891	2,763	2,031	2,386	3,783	3,402	3,308	3,256	691
Turnip	1,847	2,242	1,299	776	1,350	1,435	1,914	1,146	1,527	717	1,195	1,090	482	1,212	1,012	929	721	239

[1] Six months ended June 30, 1937. [2] Rutabaga included with turnip prior to 1922.
Compiled from Foreign Commerce and Navigation of the United States.

TIMOTHY SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1923-36

Country to which exported	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Belgium	17,630	60,685	96,212	118,222	166,771	22,400	11,000	28,600	130,026	0	0	0	48,600	77,318
Canada	12,743,182	10,037,514	9,194,279	7,902,420	7,886,848	8,725,885	6,342,738	12,532,960	6,324,495	8,565,213	3,191,510	3,291,045	190,483	2,342,742
Denmark	1,497,344	1,130,096	514,248	554.950	1,485,577	581,150	273,930	165,772	331,375	38,599	0	0	18,500	0
France	405,495	482,359	161,105	319,117	166,243	105,860	24,449	7,516	197,542	45,563	1,228	0	201,113	98,586
Germany	1,532,051	1,516,863	480,828	1,576,639	3,195,611	829,100	219,356	345,519	496,620	210,799	35,088	0	173,258	0
Irish Free State	355,289	473,210	11,283	9,024	28,403	13,528	111,042	58,091	25,856	37,257	22,440	0	35,945	108,272
Italy	1,320	7,418	0	56,824	2,210	2,333	2,210	44,200	2,210	1,134	0	0	4,400	2,200
Japan	4,135	11,553	0	0	20,979	9,058	15,184	20,244	27,514	37,887	15,000	6,046	9,981	0
Netherlands	255,563	122,829	133,978	194,209	258,491	116,275	65,193	88,994	166,321	51,599	65,036	0	171,780	90,468
New Zealand	207,376	408,096	327,604	178,199	307,767	353,970	294,017	191,356	191,138	218,693	259,238	114,215	472,076	184,321
Newfoundland & Labrador	57,865	42,590	60,658	61,782	32,501	59,522	31,700	44,200	47,008	34,650	48,193	42,840	19,040	25,225
Norway	113,883	53,127	195,368	0	0	327,747	241,648	269,917	0	0	0	0	0	0
Switzerland	44,800	13,227	0	108,460	0	8,800	0	7,500	2,646	60,500	0	11,008	94,785	59,730
United Kingdom	1.593,508	2,101,304	1,257,515	2,604,601	3,113,031	972,712	1,522,323	1,985,296	2,533,593	1,581,728	1,353,708	233,066	1,973,724	1,013,444
Other Countries	40.740	74,180	51,520	710	5,554	92,058	40,232	[1]38,406	0	7,040	[2]17,806	0	11,031	300
Total	18,870,181	16,535,051	12,484,598	13.685,157	16,669,986	12,220,398	9,195,022	15,828,571	10,476,344	10,890,662	5,009,247	3,698,220	3,424,716	4,002,606

[1] 32,000 pounds to Hungary. [2] 15,266 pounds to Austria.
Compiled from Foreign Commerce and Navigation of the United States.

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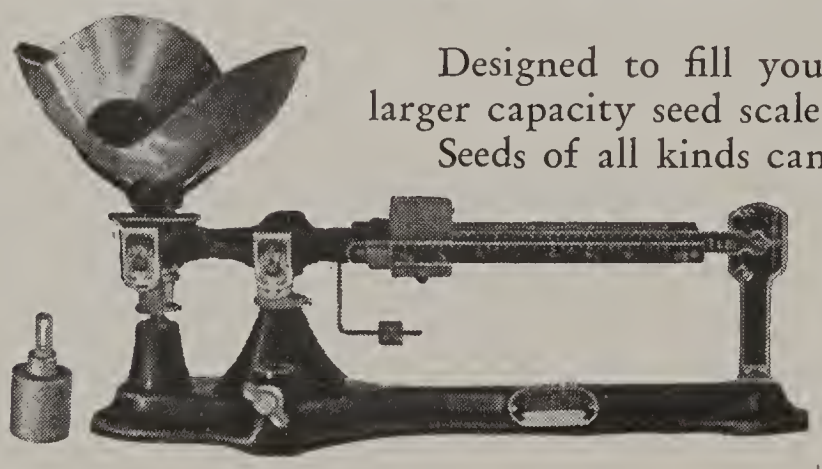
IMPORTS AND PRICES OF VEGETABLE SEEDS

Compiled from figures published by Department of Commerce.

Kind of Seed	Import Duty Per lb. Cents	Imports—Calendar Years					Average Prices				
		1933 Lbs.	1934 Lbs.	1935 Lbs.	1936 Lbs.	1937 Lbs.	1933 Per Lb.	1934 Per Lb.	1935 Per Lb.	1936 Per Lb.	1937* Per Lb.
Beet, gdn.	4	572,073	361,860	420,811	280,454	125,346	$.129	$.162	$.154	$.141	$.140
Beet, mgl.	4	244,501	182,023	318,984	290,059	148,954	.071	.097	.084	.091	.088
Cabbage...	12	173,517	192,799	304,169	400,117	89,609	.392	.422	.396	.386	.414
Carrot.....	4	60,476	28,949	19,490	15,771	8,689	.332	.499	.440	.400	.321
Cauliflower.	25	11,359	12,034	17,307	11,847	6,949	5.472	6.206	6.368	6.393	6.304
Kale.....	6	48,444	83,880	65,509	74,031	20,736	.165	.173	.184	.165	.168
Kohlrabi...	8	15,096	13,536	23,999	12,876	4,001	.306	.410	.355	.479	.498
Onion.....	15	160,180	209,990	252,346	194,638	15,512	.674	.894	.773	.686	.487
Parsley....	2	43,732	99,499	230,794	95,071	9,281	.083	.049	.048	.056	.144
Parsnip....	4	24,045	20,806	15,382	12,627	5,282	.110	.137	.145	.141	.146
Pepper....	15	961	3,653	932	1,333	928	.702	.475	.399	.780	.680
Radish....	6	444,789	340,827	383,719	475,133	238,106	.131	.154	.158	.140	.136
Rutabaga..	5	288,427	125,003	127,487	97,273	23,636	.085	.104	.102	.104	.117
Spinach....	1	3,783,364	3,401,629	3,308,358	3,256,423	690,752	.085	.092	.091	.082	.086
Turnip.....	5	1,211,931	1,012,383	928,990	721,428	239,436	.080	.106	.092	.090	.090

* Six months ended June 30, 1937. All prices F. O. B. port of origin and not including duty.

The Seedburo Seed Scale



Designed to fill your demand for a sensitive, yet larger capacity seed scale.

Seeds of all kinds can be weighed with absolute precision and accuracy, without the necessity of using different scales for the finer, more valuable seeds and the bulkier, less expensive kinds.

The Seedburo Seed Scale has a capacity of 5½ lbs. and an easy sensitivity of 1/128 fractional oz. or 1/100 decimal oz.

— FEATURING —

Seamless Brass Funnel Scoop for convenient pouring of seed into packages or bags.

Patented Self Aligning Agate Bearings.

Arrow Point Beam and End Reading Device which give easy, rapid and accurate readings.

$30.00 F.O.B. Chicago

SEED TRADE REPORTING BUREAU, Inc.

223 W. Jackson Blvd. CHICAGO, ILL.

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U. S. SEED VERIFICATION SERVICE

(Prepared by the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C.)

THE BELOW-average production of alfalfa and red clover seed in 1936 affected the quantities of these seeds verified as to origin during the Seed Verification Service year 1936-37. The quantity verified was slightly larger than that verified in the preceding season, but smaller than that verified in 1934-35. The number (86) of dealers enrolled in the Service for the year ended July 31, 1937 was the same as for each of the preceding two years. No changes were made in the conduct of the Service last year, but a number have been made for the 1937-38 season. These will be described later.

Approximately 52,000,000 pounds of alfalfa and 9,000,000 pounds of red clover seed were verified as to origin in the 1936-37 season, compared with about 48,000,000 and 12,500,000 pounds, respectively, in the 1935-36 season, and 57,200,000 and 10,800,000 pounds in the 1934-35 season. The inspection certificates issued in the 1936-37 season numbered 2,500, the fees for which totaled $18,361.99, compared with $18,228.98 in the 1935-36 season, and $20,487.47 in the 1934-35 season.

Minnesota displaced Kansas, which had led all other states for 5 consecutive years, as the leading state of production for verified-origin alfalfa seed during the 1936-37 season. It was followed by other states in the order as given: Nebraska, Kansas, Oklahoma, Utah, Idaho, Michigan, California, Colorado, Iowa, and South Dakota.

Reports from and inspection certificates issued to verified-origin seed dealers in 1937-38 indicate that 85 percent of the verified-origin alfalfa seed offered for sale by those dealers carried certificates showing the origin to be a single state, 12 percent indicated two states, and 3 percent indicated three states.

Of the samples of alfalfa and red clover seed collected during the 1936-37 season, 86 percent of the alfalfa and 96 percent of the red clover seed lots bearing tag verified-origin seed certificates were of good to very good quality, and only about 2 percent of the alfalfa and none of the red clover samples were below fair in quality. Notwithstanding the fact that the general quality of verified-origin seed has been superior to that of non-verified-origin seed since the inception of the Service in 1927 and the further fact that the verified-origin seed certificate clearly states that it does not cover variety, quality, purity, or germination, it was deemed advisable to make certain quality requirements during the 1937-38 season.

This was one of the subjects discussed at the seed verification conference held on June 14, 1937, at Cleveland, Ohio. There seemed to be a feeling on the part of various state and federal officials, as well as of many verified-origin seed dealers, that there should be a standard of conduct established in the handl-

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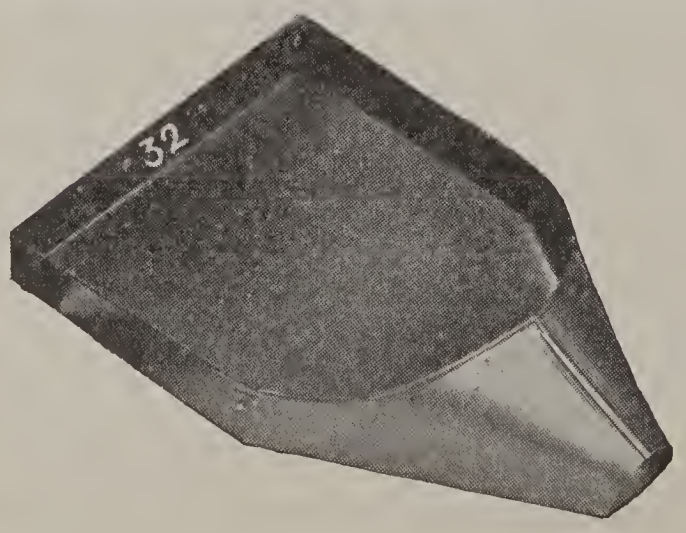
ing of verified-origin alfalfa and red clover seed that would still further enhance the value of seed bearing verified-origin seed certificates and place the dealers enrolled in the Service on a higher plane than the average.

Amendments to Rules

The amendments to the rules, regulations, and instructions governing the Service, some of which became effective on September 1 and October 5, 1937, while others will not become officially effective until January 1, 1938, will be discussed briefly. Verification of origin of alfalfa and red clover seed during the 1937-38 season is restricted to seed that was produced in the United States. Imported seed may be readily identified by the stains imposed under the Federal Seed Act.

All shipments of alfalfa seed made by verified-origin seed dealers to farmers or other consumers or to seed dealers who are not verified-origin seed dealers, except seed which has been sold specifically for recleaning, and those shipments of red clover seed to which tag verified-origin seed certificates are attached, shall be accompanied by analysis tags. These tags shall meet the labeling (tagging) requirements of the states into which the seed is shipped, and shall also contain the lot numbers which identify the respective lots in the records of the dealers issuing the tags and which (lot numbers) appear on the attached tag verified-origin seed certificates, if any, accompanying the lots. Furthermore, in the case of a lot of alfalfa seed not eligible to carry tag verified-origin seed certificates, the origin shall be shown on the analysis tag of the verified-origin seed dealer who sells it.

The following quality requirements for alfalfa or red clover seed carrying tag verified-origin seed certificates are now imposed. The analysis tags for such seed shall indicate that the seed covered contains (1) 65 percent or more of live, pure seed, (2) not over 2 percent of impurities other than crop seeds, of which impurities not over 1 percent may be weed seeds, and (3) not over 3 percent of any one kind, or a total of over 5 percent, of crop seeds other than alfalfa and red clover. The seed shall also be of the size, plumpness, color, and shall have the other physical characteristics which ordinarily distinguish seed of good quality. Wher-



SEED AND GRAIN SAMPLE PANS

For containing grain or seed after sampling. Advantageous in making analysis and for display. Seamless.

Wellsville steel—dark blue and non-glaring.

No. 31—12x16x2 in.—3 qts. wheat capacity. Price each, $1.50; half dozen, $8.50.

No. 32—8½x12x1½ in.—1½ qts. wheat capacity Price each, $1.25; half dozen, $7.00.

No. 33—Same as No. 32, Aluminum, $1.50; half dozen, $8.50.

SEED TRADE REPORTING BUREAU
223 W. JACKSON BLVD.
CHICAGO, ILL.

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ever federal or state laws or regulations require specific forms of tags or statements of germination, purity, and noxious-weed-seed content, the information on the tag should be given in accordance with those laws or regulations and it will be interpreted by the Seed Verification Service as nearly as possible in the light of the quality requirements mentioned herein.

Rules for Blended Seed

For the last four seasons verified-origin seed dealers have been required to list the origin of alfalfa seed in verified-origin seed certificates according to the approximate percentage of each origin in a blend. An additional requirement has been introduced, which is indicated in the amended section as follows:

"Wherever lots of two or more origins are blended together and the percentage of any component origin of such blend represents less than 25 percent of the lot, the approximate percentage of each component in that blend shall be stated on the tag, e. g., Oklahoma 70%, Kansas 20%, Colorado 10%, provided that any lots blended prior to October 5, 1937 and orders booked prior to that date may be covered by verified-origin seed certificates which do not indicate the percentages of the component origins."

The foregoing changes in the rules, regulations, and instructions are the most important ones that have been made since the close of the 1936-37 season. In addition, provisions have been made to give closer supervision to the advertising of verified-origin seed and to the general conduct of the Service.

The enrollment in the Seed Verification Service for the 1937-38 season is the largest on record, in spite of of the additional requirements that have been imposed. Ninety-three dealers in 24 states have been enrolled. This is 7 dealers more than were enrolled in each of the preceding three years. Up to the end of November, 1937, the quantity (approximately 25,000,000 pounds) of alfalfa seed verified as to origin was about 10 percent smaller than that verified at a corresponding time last year, but about 55 percent larger than that verified two years earlier. The quantity (approximately 3,500,000 pounds) of red clover seed verified up to November 30, 1937 is about the same as was verified at a corresponding time last year, and slightly larger than two years ago.

NEW PROFITABLE ITEMS . . .

From time to time new items are introduced to the Seed trade that are exceptionally good and produce additional sales for dealers. Seed World has this information in advance and will be glad to send it on to you if you desire it . . . just write

SEED WORLD Service Dept. — 223 W. Jackson Blvd. CHICAGO

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List of Verified-Origin Alfalfa and Red Clover Seed Dealers for 1937-38

	Alfalfa	Red Clover
CALIFORNIA		
J. C. Loomis Company, Hemet..	x	
*Northrup, King & Co., Bomberger Division, Berkeley....	x	
COLORADO		
The Grand Junction Seed Co., Grand Junction	x	x
*The Rocky Mountain Seed Co., Denver	x	
IDAHO		
Mark Means Company, Lewiston	x	
ILLINOIS		
The Albert Dickinson Co., Chicago	x	x
Funk Bros. Seed Co., Bloomington	x	
Kelly Seed Company, Peoria...	x	x
INDIANA		
Allied Seed Company, Inc., Fort Wayne	x	x
Crawfordsville Seed Co., Crawfordsville	x	x
Davis Seed Corporation, Lebanon	x	x
Foster-Kendall Co., Carmel....	x	x
Indiana Seed Company, Indianapolis	x	x
IOWA		
Bruns Seed Company, Davenport	x	
Davenport Seed Company, Inc., Davenport	x	
Hamilton Seed & Coal Co., Cedar Rapids	x	x
*Iowa Seed Co., Des Moines...	x	
†Michael-Leonard Seed Co., Sioux City	x	
Ouren Seed Co., Council Bluffs.	x	
Standard Seed Co., Des Moines..	x	
The Wertz Seed Co., Sioux City	x	
KANSAS		
Assaria Hardware Co., Assaria..	x	
The Barteldes Seed Company, Lawrence	x	
The Bowman Seed Co., Concordia	x	
*The Kelley Produce Co., Salina	x	
*The F. A. Mangelsdorf Seed Co., Atchison	x	
Salina Seed Co., Salina.....	x	
Sedgwick Alfalfa Mills, Sedgwick	x	
MARYLAND		
The Belt Seed Co., Inc., Baltimore	x	x
Wm. G. Scarlett & Co., Baltimore	x	x
MICHIGAN		
*Isbell Seed Company, Jackson	x	x
H. C. King & Sons, Inc., Battle Creek	x	x
McLaughlin, Ward & Co., Jackson	x	x
MINNESOTA		
Math Barzen Co., Inc., Minneapolis	x	
Cargill, Incorporated, Seed Division, Minneapolis	x	x
Farm Service Company, Minneapolis	x	x
Farmer Seed & Nursery Co., Faribault	x	
Ira P. Hinman, Minneapolis....	x	x
*Jameson Hevener Co., St. Paul	x	
*Land O'Lakes Creameries, Inc., Thief River Falls.....	x	x
Northrup, King & Co., Minneapolis	x	x
Peterson-Biddick Co., Wadena..	x	
Twin City Seed Company, Minneapolis	x	x
MISSOURI		
Howard E. Bagnall, Kansas City	x	x
Corneli Seed Company, St. Louis	x	x
Ed. F. Mangelsdorf & Bro., Inc., St. Louis	x	x
Mitchelhill Seed Co., St. Joseph.	x	
Peppard Seed Co., Kansas City.	x	
Rudy-Patrick Seed Co., Kansas City	x	x
MONTANA		
†Michael-Leonard Seed Co., Billings	x	
NEBRASKA		
N. Bonahoom Seed Co., Hastings	x	
Carberry Seed Co., Norfolk....	x	
Griswold Seed & Nursery Co., Lincoln	x	
*Lauber Seed Co., York.....	x	
†Michael-Leonard Seed Co., Norfolk	x	
The Nebraska Seed Co., Omaha.	x	
*Yager Seed Co., Fremont.....	x	
NEW JERSEY		
The Doughten Seed Co., Jersey City	x	x
NEW YORK		
Arthur R. Cone, Buffalo.....	x	x
Craver-Dickinson Seed Co., Inc., Buffalo	x	x
*The Sheldon Seed Co., Buffalo.	x	x
The Stanford Seed Co., Buffalo.	x	x
Whitney-Eckstein Seed Co., Buffalo	x	x
NORTH DAKOTA		
Interstate Seed and Grain Co., Fargo	x	
Magill & Company, Fargo.....	x	x
Newday Seeds, Inc., Fargo.....	x	x
North Dakota Grimm Alfalfa Association, Fargo	x	
*Oscar H. Will & Co., Bismarck.	x	
OHIO		
Henry Hirsch & Sons, Toledo...	x	x
O. M. Scott & Sons Company, Marysville	x	x
OKLAHOMA		
E. O. Billingslea Grain Co., Frederick	x	
Chickasha Seed Growers Company, Inc., Chickasha.....	x	
Clarke & Keller Seed Store, Shawnee	x	
W. B. Johnston Estate, Enid...	x	
PENNSLVANIA		
A. H. Hoffman, Inc., Landisvlile	x	x
E. J. Houck & Son, Bangor.....	x	x
The Philadelphia Seed Co., Inc., Philadelphia	x	
Seaboard Seed Co., Philadelphia	x	x
SOUTH DAKOTA		
Dakota Improved Seed Co., Mitchell	x	
McMahon Company, Rapid City.	x	
†Michael-Leonard Seed Co., Sioux Falls	x	
Geo. P. Sexauer & Son, Brookings	x	
UTAH		
Kelly-Western Co., Salt Lake City	x	x
Occidental Seed Co., Salt Lake City	x	x
Westland Seed Co., Salt Lake City	x	x
VIRGINIA		
T. W. Wood & Sons, Richmond.	x	x
WASHINGTON		
The Chas. H. Lilly Co., Seattle.	x	
WISCONSIN		
Courteen Seed Co., Milwaukee..	x	x
Kellogg Seed Company, Milwaukee	x	x
L. L. Olds Seed Co., Madison..	x	
Standard Seed Company, Madison	x	
L. Teweles Seed Co., Milwaukee	x	

* Indicates dealers who were not in the Service in 1936-37.

† Formerly Sioux City Seed Co.

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CROSMAN'S FAMOUS SEEDS

1838 -- A Century of Growth -- 1938

for 100 Years

The year 1938 marks the one hundredth anniversary of this pioneer seed company. Established when Rochester was a very small village at the time of Martin Van Buren, the 8th President of the United States, the business was founded by Charles W. Crosman. It will interest the seed trade to know that Mr. Crosman was the third president of the American Seed Trade Association which has functioned through these years for the great benefit of the seed trade at large. The company still supplies seeds to the descendants of hundreds of the original customers of the Crosman Company but, irrespective of age, it is the up-to-date value of a company's product that interests its trade and it is with pride that we can say today that the slogan, "Crosman's Famous Seeds," is still worthy of the heritage that this company possesses.

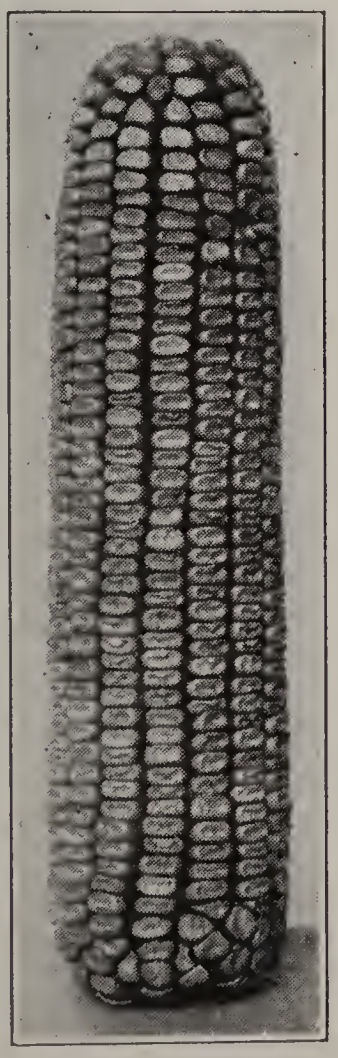
During the past years we have specialized in the packing and sales promotion of FINE packet seeds. A fully equipped seed testing laboratory is maintained to insure our customers of the most dependable seeds. To select stores we offer a plan which will give them the finest assortment of vegetable and flower seeds possible to produce and the material necessary to develop these sales as well as the ultimate satisfaction of their customers.

We are ready to supply more merchants who are equipped to sell packet seeds in quantity. A special consignment plan is offered. Please direct inquiries to —

CROSMAN SEED CORPORATION

EAST ROCHESTER NEW YORK

LAWN GRASS - - VEGETABLE - - FLOWER SEEDS



Seed CORN

(FIELD VARIETIES)

from America's

MOST PRODUCTIVE SOIL

LANCASTER COUNTY, PA.

●

Growers Processors

●

THE REIST SEED CO.

LANCASTER, PENN.

New Hybrid
POP CORN SEED

★ The famous Minhybrid 250 Jap Hulless Pop Corn from University of Minnesota.

Outstanding for 16% increased yields — 29 to 1 popping volume — 60 days earlier marketing — resistance to smut damage — A boon to growers and poppers. Seed supply limited — order promptly.

Northern Grown
SWEET CORN

★ **Minhybrid Golden Bantam**
Golden Bantam—8 row
Golden Bantam—10-14 row
Early Sunshine
Golden Gem

Buy Direct from the Growers

FARMER SEED & NURSERY CO.

4TH ST. STA -W- FARIBAULT, MINNESOTA

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CHARACTERISTICS OF FIELD SEEDS

VARIETY	Viability of Good Seed	Purity of Good Seed	Average Germination One Year Old	Average Length of Vitality Years	Weight of Seed Per Bu. Legal	Weight of Seed Per Bu. Actual	Quantity Required Per Acre	Yield of Seed Per Acre	Number of Seeds Per Pound Average
Alfalfa	97-99	98-99	94	6-8	60	60-63	15-20	300-700	220,000
Bluegrass, Kentucky	70-85	75-85	70-85	3-4	14	14-28	20-30	200-350	2,400,000
Bluegrass, Canada	85	75-85	70-85	3-4	14	14-24	15	200-500	2,400,000
Brome Grass	90-95	98-99	85-90	5	14	12-20	10-14	250-350	137,000
Clover, Alsike	99	99	75	2	60	60-66	8-12	100-300	700,000
Clover, Red	99	99	90	5-6	60	60-63	8-12	100-300	250,000
Clover, White	99	98	75	2	60	60-63	8-12	200-300	700,000
Clover, Crimson	99	99	90	2	60	60-63	12-20	200-300	125,000
Clover, Sweet	95-98	99	90-95	5	.....	.....	20-30	150-400	235,000
Cowpea	90	99	80	2	60	Variable	30-60	900-1800	1,800-5,100
Fescue, Meadow	95	90	93	2	.....	20-30	10-15	200-300	250,000
Millet, Foxtail (Common, Golden, Hungarian, Siberian)	90	98	88	4	48-50	40-55	25-50	.....	200,000
Orchard Grass	98	97	90	2-3	14	12-22	12-20	140-168	400,000
Rape	95	99	90	6	.....	.....	2-4	600-1000	.....
Redtop	95	95-98	.....	6	14	12-40	10-20	.....	4,135,900
Rye Grass, Perennial	95	98	80	2	.....	10-30	25-35	250-500	336,000
Rye Grass, Italian	95	98	80	2	20	12-24	35-40	500	285,000
Soybean	98	99	90	2	60	60	20-30	1000-2400	2,144-6,388
Timothy	98	98	95	5-6	45	42-50	9-15	225-450	1,170,500
Vetch	95	99	90	3	60	60	40-90	600-720	8,500-16,000

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Louisiana Grown

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(more plants per pound)

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Soy Beans

3300 acres chiefly seed crops
One of the best equipped cleaning plants in Louisiana

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T. A. Lemoine

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of
LESPEDEZA

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and PRICES

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Fayetteville ∴ Tennessee

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Carlot buyers of beans, peas, turnip, etc.

Shippers of Sudan, Cane, Grain Sorghums, Alfalfa, etc.

MARTIN-LANE COMPANY
VERNON, TEXAS

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CHARACTERISTICS OF VEGETABLE SEEDS

The figures in the following table are intended to be approximate only, as variations occur in varieties and are also due to conditions of growth, harvest and storage.

Vegetable	Average Germination 1 Year Old Seed	Average Duration of Germinating Power in Years	Average Number of Seeds per Ounce	Average Weight of Quart of Seed in Ounces	Amount Required for 100 Feet of Drill	Amount of Seed required Per Acre	Depth of Planting
Asparagus	90%	3	1,000	32	1 oz.	5 lbs.	1 in.
Beans, Dwarf	90%	3	100	30	1 lb.	60 lbs.	1 in.
Beans, Pole	90%	3	100	30	½ lb.	30 lbs.	1 in.
Beet, Garden	80%	4	1,750	10	1 oz.	6 lbs.	1 in.
Beet, Mangel	80%	4	1,200	10	1 oz.	5 lbs.	1 in.
Brussels Sprouts	85%	4	6,500	24	¼ oz.	2 oz.	½ in.
Cabbage	85%	4	5,000	24	¼ oz.	4 oz.	½ in.
Carrot	75%	3	14,000	12	½ oz.	2 lbs.	½ in.
Cauliflower	75%	4	14,000	24	¼ oz.	1 oz.	½ in.
Celery	80%	3	100,000	16	¼ oz.	4 oz.	⅛ in.
Collards	88%	3	4,500	24	¼ oz.	4 oz.	½ in.
Corn, Sweet	85%	3	125	23	¼ lb.	12 lbs.	1 in.
Cucumber	85%	5	1,000	18	½ oz.	2 lbs.	1 in.
Eggplant	75%	4	5,000	18	⅛ oz.	4 oz.	½ in.
Endive	80%	5	13,500	12	1 oz.	2 lbs.	½ in.
Kale	85%	4	7,500	24	¼ oz.	1 lb.	½ in.
Kohlrabi	85%	3	7,000	24	¼ oz.	1 lb.	½ in.
Leek	80%	2	8,000	18	½ oz.	4 lbs.	½ in.
Lettuce	90%	6	16,000	14	½ oz.	3 lbs.	½ in.
Melon, Musk	85%	5	1,200	12	½ oz.	2 lbs.	1 in.
Melon, Water	85%	5	225	16	1 oz.	2 lbs.	1 in.
Mustard	85%	3	18,000	30	¼ oz.	1 lb.	¼ in.
Okra	85%	1	425	20	2 oz.	8 lbs.	1 in.
Onion	80%	2	12,500	16	1 oz.	4 lbs.	½ in.
Parsley	70%	1	17,500	12	¼ oz.	3 lbs.	⅛ in.
Parsnip	75%	1	2,800	10	½ oz.	3 lbs.	½ in.
Peas	90%	3	50 to 150	30	1 lb.	60 lbs.	1 in.
Pepper	75%	2	4,000	16	⅛ oz.	2 oz.	½ in.
Pumpkin	90%	4	100	9	½ oz.	4 lbs.	1 in.
Radish	90%	4	5,000	24	1 oz.	10 lbs.	½ in.
Salsify	75%	1	4,500	12	1 oz.	8 lbs.	½ in.
Spinach	80%	3	3,000	14	1 oz.	8 lbs.	1 in.
Squash, Summer	90%	4	300	20	½ oz.	4 lbs.	1 in.
Squash, Winter	90%	4	125	14	½ oz.	2 lbs.	1 in.
Tomato	85%	3	7,500	10	⅛ oz.	1½ oz.	½ in.
Turnip	90%	4	10,000	24	½ oz.	1 lb.	¼ in.

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Are You Particular
ABOUT THE QUALITY OF SEED YOU SELL?

- of Course you are!

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Field and Sweet CORN
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Nursery Stock
★
Wholesale and Retail
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W. N. Scarff's Sons
New Carlisle, Ohio

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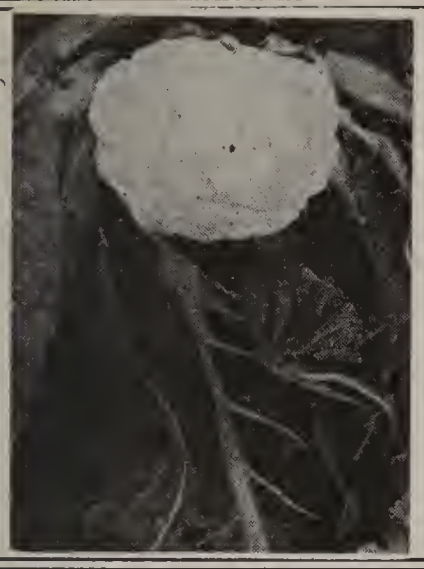
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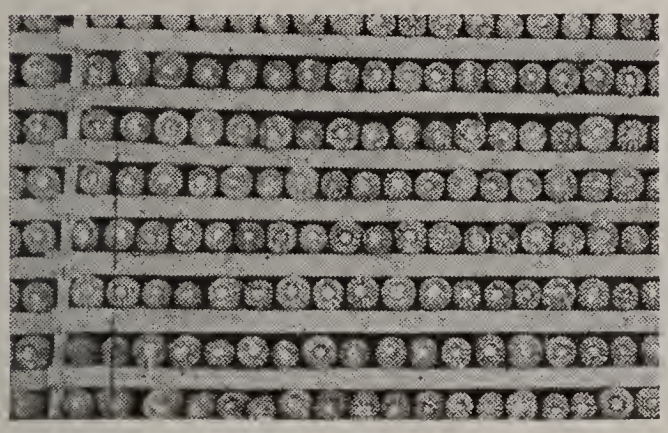
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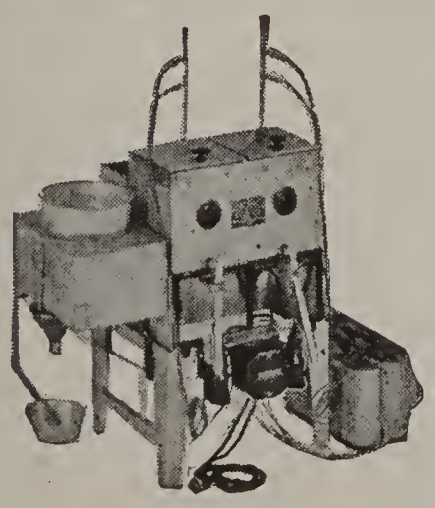
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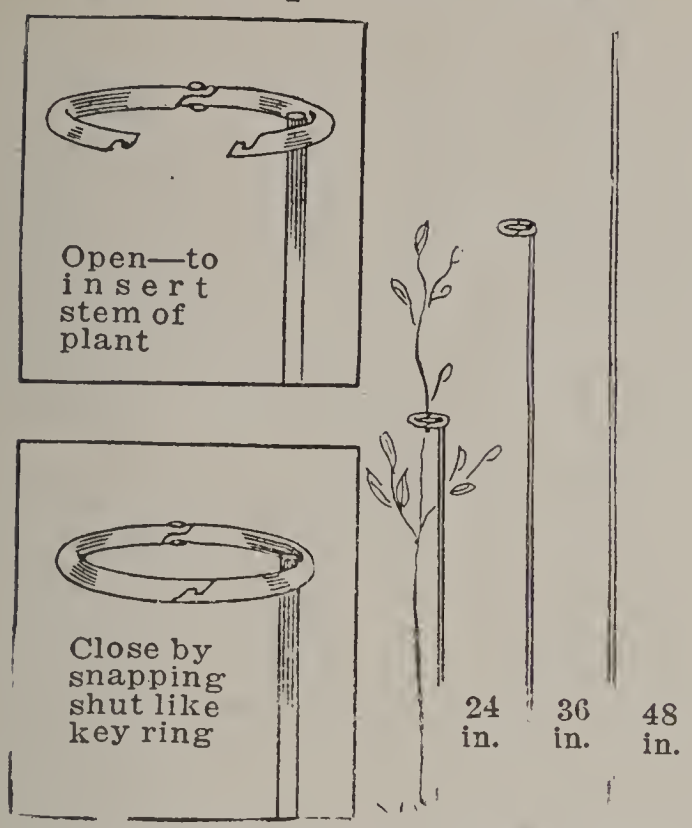
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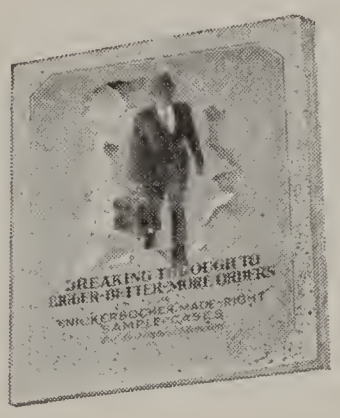
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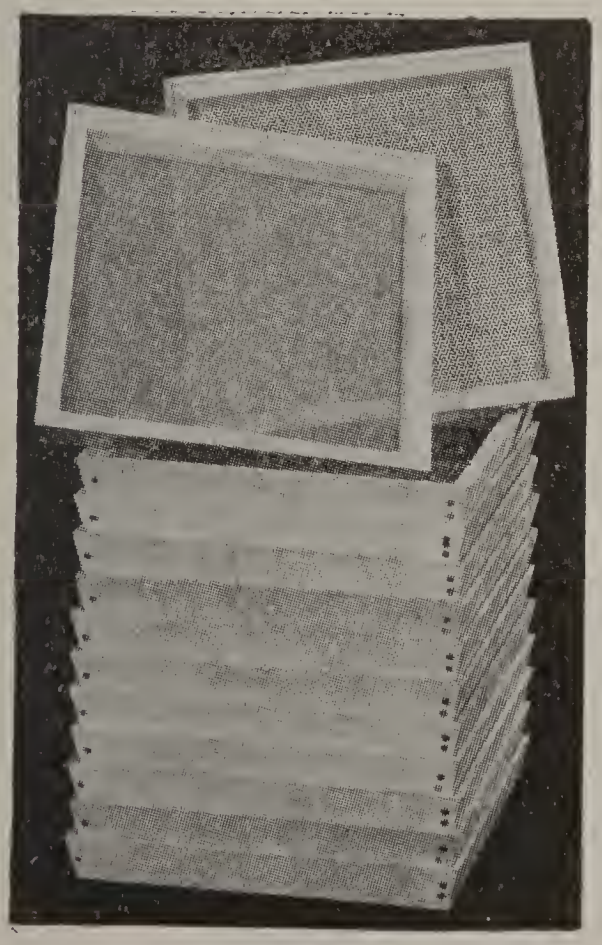
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Chicago, Ill.
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BIGGER PROFITS FOR YOU!

It will pay you to read the Lōma announcement on Page 17.
Lōma takes the lead with new, colorful canisters and bags.

Don't forget, jobbing discounts are available in many localities.
For full particulars write:
Tennessee Corporation, 61 Broadway, New York, N. Y.

Lōma The Perfect Plant Food *for Everything Green that Grows*

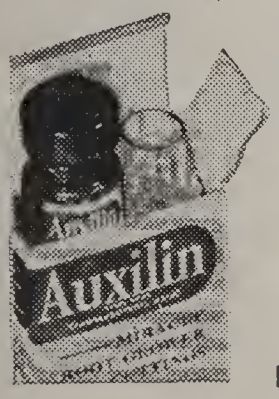
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THE MIRACLE ROOT GROWER
OFFERS YOU

NEW and STEADY PROFITS!



Auxilin is gaining quick and continuous recognition all over America. Official, exhaustive tests prove that it does everything promised. Professional and amateur growers alike are enthusiastic in using it. Wholesalers are stocking it for your convenience and quick delivery.
Auxilin is readily saleable in the 50c size (enough to treat 600 cuttings!) and larger. Dealers can make it a real, repeat profit-maker by telling their customers and selling them the amazing, time, trouble and money-saving, certain results of Auxilin. Dealers are backed by national advertising, newspaper ads, publicity articles, speeches for local garden clubs, counter displays, literature, etc.



WRITE TODAY for literature and names of nearest wholesalers.

PENNSYLVANIA CHEMICAL CORP.
ORANGE, N. J.

CHEMICALS LIMITED
MONTREAL, CANADA

PCC

MANURE

NATURE'S FERTILIZER FOR LAWNS & GARDENS



Safe Weedless Economical

Superior quality sheep and cow manures, direct heat sterilized and weedless. Attractively packed in six sizes for the retail trade. A free sales building service makes Wizard the most profitable brand to handle.

—

The Pulverized Manure Co.
395 Union Stock Yards • Chicago, Ill.

THE 2 LEADING PLANT FOODS

Sheep's Head Pulverized Sheep Manure

A concentrated organic plant food, sterilized of weed seeds, for use where quick, active results are desired. Packed 5 lbs., 10, 25, 50, 100 pounds to the bag.

SHEEP'S BRAND HEAD
TRADE MARK
NATURAL GUANO CO
AURORA, ILLINOIS

Sheep's Head Sterilized Cattle Manure

For plants requiring a loose, cool soil reclaimant; especially desirable for flowers, such as roses, dahlias, tulips, house plants. Sterilized of weed seeds. Organic. Odorless. Packed 100 pounds to the bag.

These two products are all the plant foods you need to build yourself a thriving seed business—in store or catalog. Send us your requirements and we will furnish copy, layout and cuts for catalog or newspaper use. Ask for our dealer proposition.

THE NATURAL GUANO COMPANY
1020 S. LAKE ST. Established 1903 AURORA, ILLINOIS

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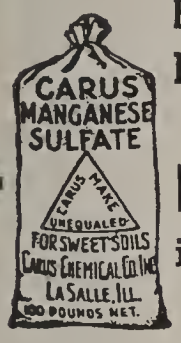
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Pottstown, Pa.
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CARUS

MANGANESE SULFATE



Helps Blooming — Aids Plants to Mature Earlier — Increases Yields

List this Profit Maker in Your Next Catalog

Amazing successes with Carus Manganese Sulfate, the chemical that balances the plants' mineral diet by supplying 5 additional plant food elements supplementary to commercial fertilizer, has increased the use of this important chemical tremendously.

Manganese Sulfate helps blossoming, aids plants to early maturity, increases yields of better quality, better flavored fruit, which keeps and ships better. It also assists to prevent yellows (chorosis) of spinach, tomatoes, peas, beans, etc. Beneficial to all plants growing in sweet soils under glass or in open field.

SEND FOR SPECIAL DEALER OFFER

This odorless powder, Carus Manganese Sulfate, pays a long profit. Be sure to list it in your catalog. Write today for our special dealer offer and free bulletins on Manganese Sulfate.

CARUS CHEMICAL CO., INC., Dept. SW-4, La Salle, Ill.

You're Talking BETTER PROFITS *when you talk about* HORMODIN "A"

A year ago Hormodin, the new root-forming chemical developed by the Boyce Thompson Institute for Plant Research, Inc., was a laboratory sensation. Today progressive seed dealers are finding it a profit sensation as well.

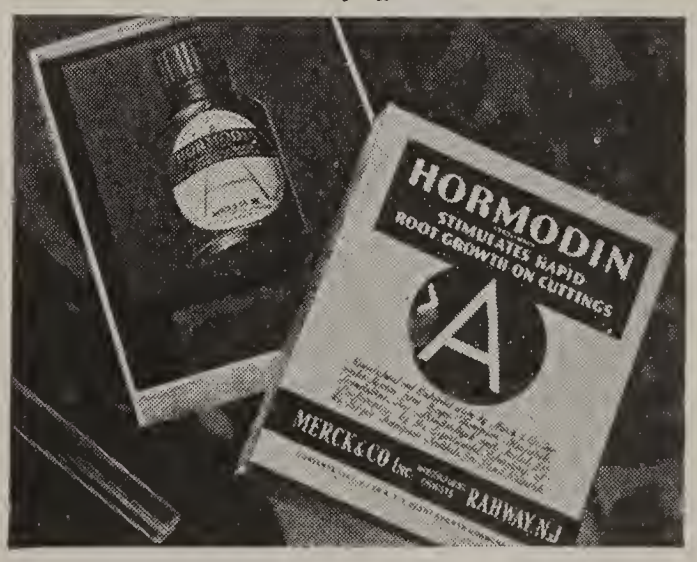
A few tests will show your customers the amazing root-growing power of Hormodin "A". It enables them to obtain quicker and better rooting of cuttings in higher percentages than ever before. It enables them to hasten the development of slower rooting species—transplant some varieties directly from the bench to field conditions — propagate from cuttings many species that ordinarily do not root successfully.

Hormodin "A" comes in liquid form and is applied as a dilute water solution. The cost is only a fraction of a cent per cutting. To assure uniform root-inducing potency, every batch of Hormodin is standardized both chemically and physiologically.

Free cuts for your catalog

The demand for Hormodin is growing daily. Write today for new Hormodin "A" cut sheet and profitable catalog suggestions.

Packed in five sizes, and sold on the basis of B. T. I. units of effectiveness.



MERCK & CO. Inc.
Manufacturing Chemists
RAHWAY, N. J.

We Make the Dependable *IRON AGE* Garden Tools

Used by Home and Truck Gardeners for Two Generations

Also True-Fitting Parts for all Iron Age Garden Tools now in use

Write for prices and discounts

ELLIS KEYSTONE AGRICULTURAL WORKS

POTTSTOWN, PENNSYLVANIA



IRON AGE

Combined Seed Drill
Single and Double Wheel Hoe

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Garden Tools

IT IS ONLY logical that gardeners and home owners should purchase their garden tools in the same place where they buy their seeds and plants, and that is why so many seed dealers handle a complete line of these tools. Garden tools and seeds go hand in hand and one helps to sell the other. Most dealers have found that it pays to handle only quality makes of tools. The average gardener prefers good tools because he finds them easier to work with and most of them are designed to save labor and of course, no gardener overlooks this important feature.

Following are some pointers for the seedsman handling garden tools to remember:—

Know what the actual needs of your locality are before you place your order for garden tools. There is a greater demand for garden tools in some communities than in others, so it is up to you to make your decision regarding the quantities and styles of tools that you will stock.

* * *

Whenever a customer makes a purchase of garden or lawn seed, ask him if he has the proper tools for cultivating the soil and properly planting the seed.

* * *

Arrange the displays in your store in such a way that it is convenient for customers to handle the tools. Many manufacturers furnish tool racks built especially for display purposes, and they are handy and attractive, to say the least. However, if you do not happen to have one of these racks, it is a simple matter to construct one.

* * *

These racks are most convenient for displaying the larger tools, such as rakes, hoes, spades, etc. The smaller tools, such as trowels, pruning shears, dibbles, etc., can be placed on tables in different sections of the store, but you will find that more sales will be made if these tables are situated in convenient spots where customers can pick up the tools and handle them. After a customer has had one of these tools in his hands, he invariably is possessed with an urge to own it and the result is, of course, a sale.

* * *

Window displays are of vital importance in the promotion of garden tool sales. Some of the most attractive and appealing window displays are built around garden tools. It is naturally a splendid idea to feature these displays in the spring of the year, and to combine seeds and the various garden tools to make the display more effective.

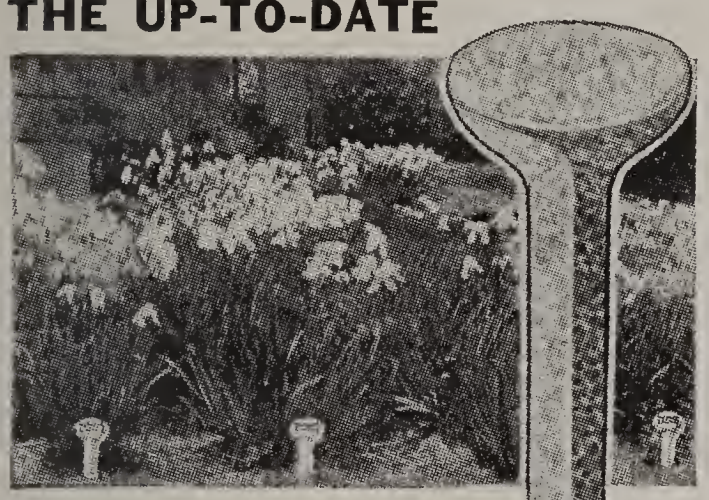
* * *

New time and labor saving tools are continually being placed on the market by the up and coming manufacturers. When you find out from some reliable manufacturer that he

is coming out with some new tool, investigate it immediately and if you feel that it will be a good seller in your store and you decide to handle it, place an advertisement in your local paper, featuring the tool, and call attention to your store as the logical place to purchase it. Then tie up this ad with an attractive window display showing the new article of merchandise.

You can increase your garden tool business to no small degree if you will cooperate with the manufacturers of this merchandise and follow the helpful sales advice which they are in a position to give you. Remember, every gardener is a prospect for some sort of a tool. These tools are constantly being broken or worn out and need to be replenished and new gardeners need a complete new outfit.

THE UP-TO-DATE



OVAL BOWL

Flower Marker

No.	Name	Metal	Length	POSTPAID PRICES Price Per 100
22-20	OVAL BOWL	Galv.	9 in.	$3.50
22-21	" "	Zinc	9 in.	5.50
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Cleveland, Ohio

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Port Washington, Wis.

Graham & Co., Inc., John H.
New York, N. Y.

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Wonder Mfg. Co.
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Benthall Machine Co.
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Crown Mfg. Co.
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Port Washington, Wis.

Gravely Motor Plow & Cultivator Co.
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Leroy Plow Co.
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Minneapolis, Minn.

Pioneer Mfg. Co.
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Tillavator Co.
New York, N. Y.

Utilitor Co., The
Dayton, Ohio

GRINDERS—HAND

Arcade Mfg. Co.
Freeport, Ill.

Hoeft & Co., Inc.
North Chicago, Ill.

W. W. Feed Grinder Corp. (Compost)
Wichita, Kans.

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Graham & Co., Inc., John H.
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Grand Rapids, Mich.
Smith & Son, Inc., Seymour
Oakville, Conn.
Tiffany, Carroll R.
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Dennis & Co., W. J.
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Handle & Excelsior Co.
Picture Rocks, Pa.
Ionia Pottery Co. (Wire)
Ionia, Mich.

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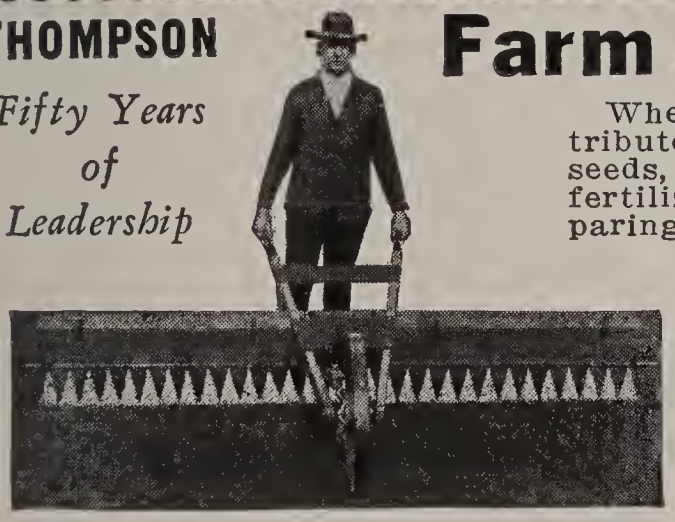
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SHORTSVILLE, N. Y.

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Star Expansion Bolt Co. (Hooks)
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Universal Wire & Iron Co., Inc.
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Williamson, Inc., Garfield
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Woodcraft Co., The
Dalton, N. Y.

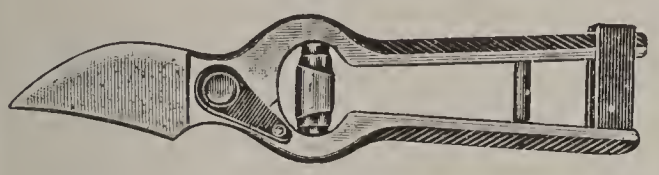
TOOLS—GARDEN

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Alliance Mfg. Co., The
Alliance, Ohio
American Fork & Hoe Co.
Cleveland, Ohio
Ames Eng. & Mfg. Co.
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Gilson Co., J. E.
Port Washington, Wis.
Hamlin Metal Products Co.
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Allen & Co., Inc., S. L.
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Hardie Mfg. Co.
Hudson, Mich.
Hudson Mfg. Co., H. D.
Chicago, Ill.
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Johnson, Inc., Wm.
Newark, N. J.

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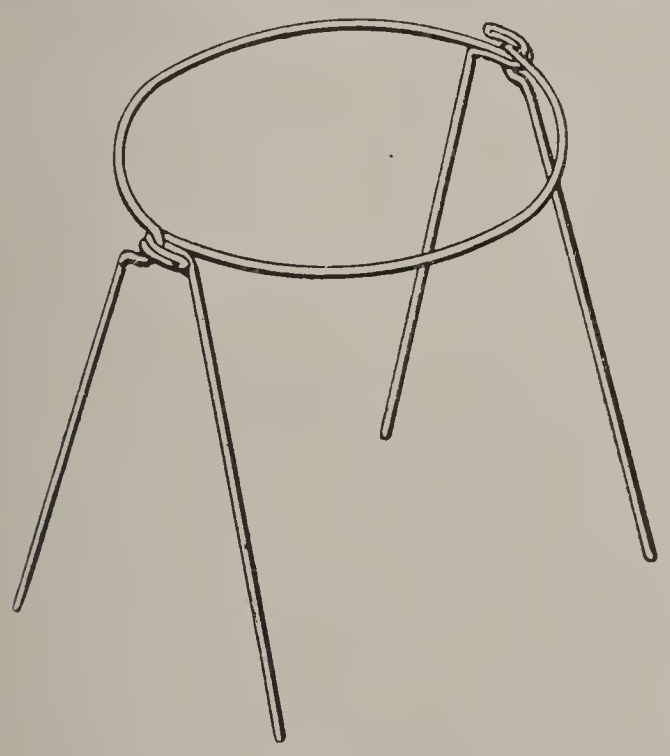
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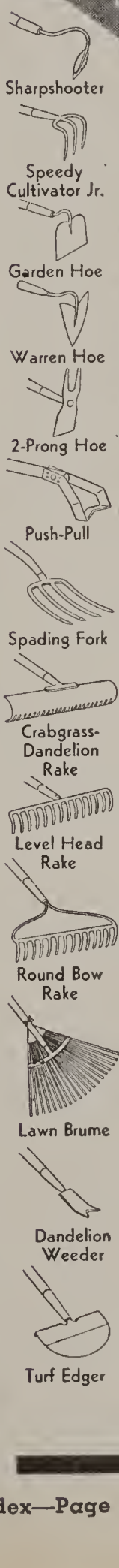
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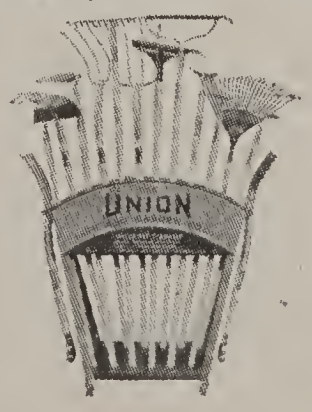
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Racine, Wis.
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Shaw Mfg. Co.
Galesburg, Kans.
Tillavator Co.
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Utilitor Co., The
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Neidinger Co., Joseph G.
Philadelphia, Pa.
Unadilla Silo Co., Inc.
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Wheeling, W. Va.
Woodcraft Co.
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Yoho & Hooker (Cypress)
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Almo Trading & Importing Co. (Fibre Vases)
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American Florist Supply Co.
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Piqua, Ohio
(See Adv. on Page 245)
Lewis Co., G. B.
Watertown, Wis.
Michigan Wire Goods Co.
Niles, Mich.
M & K Metal Works, Ltd. (Flower Holder)
Portland, Ore.
(See Adv. on Page 229)
Randall Co., A. L.
Chicago, Ill.
Rotenone Products Co. (Tintdust)
East Orange, N. J.
Uniform Products Co.
New York, N. Y.
Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 285)

FORCERS—SEED AND PLANT

American Fork & Hoe Co.
Cleveland, Ohio
Ball-Biddle Co.
Riverton, N. J.
(See Adv. on Page 251)
Keene Mfg. Co.
Racine, Wis.

FUMIGANTS—GREENHOUSE
(See Page 276)

GLASS

Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
(See Adv. on Page 251)
Yoho & Hooker
Youngstown, Ohio

GLASS—ARTIFICIAL

Flex-o-Glass Mfg. Co.
Chicago, Ill.
Hoeft & Co., Inc.
North Chicago, Ill.
Turner Bros.
Bladen, Nebr.
Vitalite Co.
New York, N. Y.

GREENHOUSE AND FLORAL SUPPLIES—Continued

GRASS MATS—RAFFIA

American Reedcraft Corp.
New York, N. Y.
Loewith, Inc., Julius
New York, N. Y.
(See Adv. on Pages 151 and 315)

GREENHOUSES
(See Greenhouses—Page 326)

LABELS—PLANT

Ball & Socket Mfg. Co.
West Cheshire, Conn.
Garden Label Co.
Wilton, Conn.
(See Adv. on Page 311)
Miller Engineering Machine Co.
Newark, N. J.
(See Adv. on Page 321)
National Band & Tag Co.
Newport, Ky.
(See Adv. on Page 303)
Norman Sheet Metal Mfg. Co., W. F.
Nevada, Mo.
Smock, L. J. (Wood)
Cochranton, Pa.
Stewart Co., Chas.
Roseland, N. J.
S-W Supply Co.
Girard, Kans.
Yoho & Hooker
Youngstown, Ohio

MOSS—PEAT

Anderson Box Co. (Horticultural)
Indianapolis, Ind.
(See Adv. on Page 296)
Atkins & Durbrow, Inc. (Horticultural)
New York, N. Y.
(See Adv. on Page 249)
Balfour, Guthrie & Co.
San Francisco, Calif.
Consumers Import Co.
New York, N. Y.
Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 15)
Domestic Peat Moss Co.
Waukesha, Wis.
Godchaux Sugars, Inc.
New Orleans, La.
Holland Peat Products Co.
Holland, Mich.
Loewith, Inc., Julius
New York, N. Y.
(See Adv. on Pages 151 and 315)
McHutchison & Co.
New York, N. Y.
(See Adv. on Page 315)
Miller & Son, Frank
Chicago, Ill.
Minn. Horticultural Peat & Litter Co.
Minneapolis, Minn.
(See Adv. on Page 249)
New Amsterdam Import & Supply Co.
(Horticultural Peat)
New York, N. Y.
Peat Import Corp.
New York, N. Y.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 82)
Premier Peat Moss Corp.
New York, N. Y.
(See Adv. on Page 249)
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 149)
Williamson, Inc., Garfield
New York, N. Y.

MOSS—SPHAGNUM

American Bulb Co.
Chicago, Ill.
(See Adv. on Page 95)
Consumers Import Co.
New York, N. Y.
Minn. Horticultural Peat & Litter Co.
Minneapolis, Minn.
(See Adv. on Page 249)
Williamson, Inc., Garfield
New York, N. Y.
Wisconsin Moss Co.
Wisconsin Rapids, Wis.

PAINTS

Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)

POTS—FLOWER

Adams Co.
Dubuque, Iowa
Bellevue Clay Products Co.
Bellevue, Iowa
Ball-Biddle Co. (Fibre)
Riverton, N. J.
(See Adv. on Page 251)
Bird & Son (Paper)
East Walpole, Mass.
(See Adv. on Page 250)
Fertile Products, Inc.
Bridgeport, Conn.
(See Adv. on Page 251)
Haeger Potteries
Dundee, Ill.
Hews Co., A. H.
Cambridge, Mass.
Metal Egg Crate Co.
Fredericksburg, Va.
Pittsburg Pottery Co.
Pittsburg, Kans.
Richmond Cedar Works (Cedar Tubs)
Richmond, Va.
Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)
Zane Pottery Co.
So. Zanesville, Ohio

POT COVERS—FLOWER

Bird & Son, Inc.
East Walpole, Mass.
(See Adv. on Page 250)

Look FOR THE HALLMARK OF QUALITY...

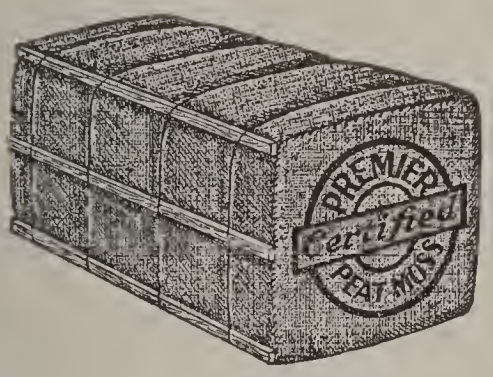
PREMIER Certified PEAT MOSS

Look for the **"Premier Certified"** seal when buying Peat Moss.

Checked on any of the points by which experts determine quality, and value—WEIGHT, COLOR, ABSORBENCY, CLEANLINESS, COVERAGE and PRICE—Premier Certified Peat Moss proves its worth! And Premier is the only VACUUM CLEANED Peat Moss!

The characteristic **light color** and **light weight** of Premier Peat **guarantees** highest absorbing power just as a light weight and light colored sponge absorbs and retains more water.

Write for prices and literature—including facts and figures on our profitable RE-PACKAGING PLAN. Premier Peat Moss Corp., 150 Nassau St., New York City.



PREMIER
Swedish & Northland
PEAT MOSS
CERTIFIED - VACUUM CLEANED

A SALES WINNER

GPM PEAT MOSS

It's *Emblem-Protected* P.I.C.

The world's finest quality horticultural Peat Moss. Fully aged, uniform throughout, expertly refined. Every bale is P.I.C. Emblem-Protected. Excellent for soil conditioning, transplanting, mulching, etc. Extensively advertised. In 20-bushel pressure-packed bales, easily distinguished by the "green" bale head. Investigate GPM today. Write for free literature, prices, etc.

Also Ask About

SORBEX — the finely pulverized 100% sphagnum moss peat for bench soils, seed flats, etc. Eliminates "damping off" and transplanting losses. In 3½ bushel bags.

ATKINS & DURBROW, Inc.
165 John St., NEW YORK, N. Y.
1524 South Western Ave. CHICAGO, ILL.
177 Milk Street BOSTON, MASS.

"BUY AMERICAN"

100% Pure Sphagnum Moss Peat
AMMONIA TREATED or NATURAL

GET GRO-ZUM

Before Your Competitor Does

GRO-ZUM is America's sphagnum peat moss. The same as is imported from Germany. Color and texture, and analysis about alike.

"GRO-ZUM"—by our secret treatment with ammonia sulphate GRO-ZUM has 9 per cent available nitrogen. European G. P. Moss has only 1½ to 2 per cent.

GRO-ZUM has been used also in Minnesota for ten years. It has the O. K. of the Dept of Agriculture, also this and other State Universities.

There were 2,200 tons (60 carloads) of GRO-ZUM sold and used in Minnesota alone in 1937.

There were only 2 cars of European Garden P. moss peat sold in this state in 1937.

(New freight rates just allowed enable us to serve you and your territory.)

GRO-ZUM comes in 6-bushel bags, weighing 90 to 100 pounds each. These bags are lined and moisture-proof; will keep indefinitely.

We do not bale GRO-ZUM or any lawn or garden peat. Baling under pressure crushes the cell structure in the peat, destroying its moisture holding qualities. Many months after baling, before reaching you or the consumer, German-baled G. P. Moss Peat has to be worked up to make it of any use to a grower. This takes time and much watering.

GRO-ZUM is clean, nice to work in; no dust or dirt. Can be applied in any weather. Won't blow away. Ready to use; no time wasted.

GRO-ZUM is not expensive. Get your agency for GRO-ZUM before your competitor does.

MINNESOTA HORTICULTURAL PEAT & LITTER COMPANY
650 Second Avenue North
MINNEAPOLIS, MINNESOTA

Advertisers Index—Page 335

PROFITS GROW in Neponset Green Pots



You'll cut costs, increase profits with Neponset Green Pots because they are specially made to provide maximum growth, from seed to maturity, and enable you to ship in the same flower pot. Made of tough specially treated, waterproof paper, they are non-porous and promote a more even distribution of moisture. The Green Pots are especially attractive and decorative. Ask your florists' supplier about Neponset Green, Neponset Red and other flower pots and plant bands made by

A reinforcing disc, exclusive with Bird Pots, prevents roots entangling with closing sections of the base and adds to the strength of the pot.

BIRD & SON, inc. EAST WALPOLE, MASS.

POT SAUCERS—FLOWER

Almo Trading & Importing Co.
New York, N. Y.
Bird & Son, Inc.
East Walpole, Mass.
(See Adv. on Page 250)
Zane Pottery Co.
Zanesville, Ohio

POTS—TRANSPLANTING

Ball-Biddle Co. (Fiber)
Riverton, N. J.
(See Adv. on Page 251)
Bird & Son, Inc. (Paper)
East Walpole, N. Y.
(See Adv. on Page 250)
Expan Co.
Redlands, Calif.
Fertile Products Inc.
Bridgeport, Conn.
(See Adv. on Page 251)
Kervan Co. (Paper)
New York, N. Y.
Lily Tulip Cup Corp. (Paper)
New York, N. Y.
Osmo Garden Co.
Philadelphia, Pa.

PUTTY

Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
(See Adv. on Page 251)

SASH—HOT BED

Foley Greenhouse Mfg. Co.
Chicago, Ill.
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
(See Adv. on Page 251)
Vitalite Co.
New York, N. Y.
Yoho & Hooker
Youngstown, Ohio

SHADINGS

Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)

SUPPLIES—HOT BED

Keene Mfg. Co. (Electric)
Racine, Wis.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
(See Adv. on Page 251)
Uniform Products Co.
New York, N. Y.

TUBS—TREE AND PLANT

Richmond Cedar Works
Richmond, Va.

VASES—CEMETERY

Mit-Shel Stamping Mfg. Co.
Quincy, Ill.
(See Adv. on Page 239)

METROPOLITAN

HOT BED SASH, $1.50



The best. Extra strong to stand any weather without weakening, or paint and putty chipping. Genuine Tidewater red cypress, select grade. Joints blind, well mortised, tight-fitting. Smooth finish and sides absolutely parallel to prevent gaps. Round press-fitted iron cross bar. Size 3 ft. x 6 ft., **$1.50**; Painted pure white lead paint, **$1.83**; Painted and glazed with double thick glass, bedded in putty, **$3.65**; with single thick glass, **$3.40**. Crating on glazed sash only, **75c** extra on each six sash or less. Write for Sash Bulletin No. 437 describing many styles and sizes to select from.

METROPOLITAN SEED FLATS

Made from Tidewater red cypress, and can be used many seasons without rotting or breaking apart. Sizes, 3⅜ x 12¾ x 20, 4⅜ x 12¾ x 20 and 4⅜ x 12¾ x 24. Shipped knocked down or assembled ready for use. Write for prices, stating quantity needed.

DEALERS:—There is a good profit in handling METRO products. Shipment to you or direct to your customers in your name. **Special prices on quantity orders.**

Prices, cash and subject to change.

METROPOLITAN GREENHOUSE MFG. CORPORATION

Greenhouses and Construction Materials

1873 Flushing Ave. BROOKLYN, N. Y.

SEED HOUSES

Attention!



THE FERTILE POT

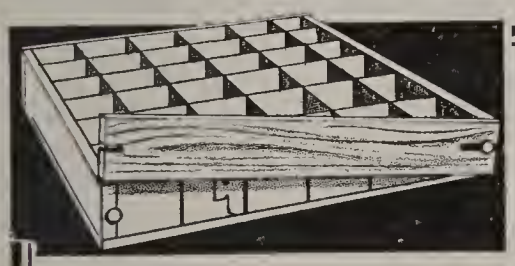
Do You Sell Direct To the Growers? If so—

the agency for this pot is available. You can add to your profit by distributing this pot. Be the FIRST in your territory to announce to your customers that you carry this pot on hand. Inquire TODAY about our liberal discount.

FREE cuts and descriptions will be furnished for your catalogue upon request.

FERTILE PRODUCTS, INC.

PARALLEL ST. BRIDGEPORT, CONN.



B-B Garden Flat Patented

B-B Garden Flat—A home grower's necessity. Made from choice lumber with removable front. Pots can be removed easily without disturbing roots. Write for distributor's prices.

BALL-BIDDLE FARM & GARDEN SPECIALTIES

PROFITABLE ITEMS FOR SEED MERCHANTS

B-B Craft Board Pot—Square construction allows ample room for root growth, eliminates waste air space when in flat and insures uniform moisture. Eliminates damage from cut worms and leaves roots undisturbed as bottom unlocks.

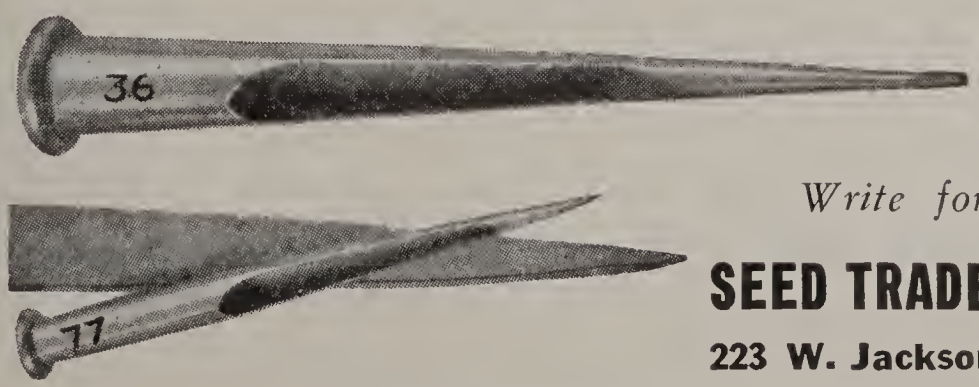
B-B Improved Celery Bleacher—Exclusive design decreases labor and permits the circulation of air, thereby eliminating rot and mildew. Can be used repeatedly. Full details and distributor's prices on request.



B-B Celery Bleacher Patented

BALL-BIDDLE COMPANY, Riverton, N. J.

SEED BAG TRIERS



Complete Assortment

Prompt Shipment

Write for Catalog and Prices

SEED TRADE REPORTING BUREAU

223 W. Jackson Blvd. CHICAGO, ILL.

Advertisers Index—Page 335

Plant Foods and Fertilizers

THERE IS no line of merchandise which ties in so closely with the seed business as does that of fertilizers and plant foods. Seeds, plants, cuttings and bulbs are grown in every community and this, of course, means that where these are sold plant foods and fertilizers are also in demand, and the field for these products is indeed a broad one.

To make the most of this business, the dealer would do well to follow the advice given below:

Make a careful study of your entire territory in order to determine the extent of the use of plant foods and fertilizers.

* * *

Study the type of customers in your territory to find out just what kinds of plant foods or fertilizers are needed. Then stock the kinds and sizes of packages that you feel will be in demand but before placing your order with the manufacturer make a careful investigation of nationally advertised brands.

* * *

When you advertise your seeds or plants in your local paper, include also in the advertisements a suggestion with regard to the use of plant food.

* * *

Stage attractive and attention getting window displays. Whenever seeds, plants, or bulbs are shown, be sure to make a point of hooking them up with the proper plant foods or fertilizers. Just as soon as the weather breaks in the spring, start to push the sale of plant foods and fertilizers along with seed and plant purchases, making a special feature of them in your early spring window displays.

* * *

Make your store headquarters for the dispensing of helpful and authentic information on soil conditions and requirements. Know what is going on in the plant food world. Much helpful information can be obtained from the U. S. Department of Agriculture, at Washington, D. C., as well as from all state and agricultural experiment stations. Manufacturers of reliable products are also well versed on the subject and are in a position to supply you with practical and sound advice.

* * *

Distribute the literature supplied by manufacturers. When a customer's package of seeds is wrapped, enclose in it a manufacturer's circular. Place these circulars on counters in the store also, where customers can pick them up, take them home, and read them at some leisure moment.

* * *

Familiarize yourself with the use of all the plant foods you handle so that you can recommend the proper kind of plant food or fertilizer for a specific purpose. Often two or three types can be sold to the same customer to meet the varied conditions or types of plantings he may have. Most

gardeners feel the need of some sort of plant food but may not know what is the best type to use. If you can give these gardeners authentic information, they are sure to have your store marked as the place to make their purchases in the future.

The best time to sell a plant food or fertilizer is right at the time when the seed or plant is purchased. By merely making a suggestion, almost invariably the plant food will be bought right along with the other purchase.

HANDLE THE LARGEST SELLING TABLET

FULTON'S

PLANTABBS



Our advertising has made PLANT FOOD TABLETS a staple item for seed stores. It pays to handle the ADVERTISED BRAND. Even a small space in your catalogue will prove profitable. Ask for cuts and liberal catalogue discounts.

Plantabbs Company, 16 W. Biddle Street, Baltimore, Md.

Are you familiar with the

TRADE MARK SECTION?

Page 12

There you will find the leading trade marks and brand names and the name of firm producing same. It is well to know this information and we are sure you will find this section very interesting.

INOCULANTS AND PLANT FOODS

INOCULANTS

Agricultural Laboratories, Inc.
Columbus, Ohio

Dickinson Co., The Albert
Chicago, Ill.
(See Adv. on Page 15)

Edwards Laboratory, The
Lansing, Mich.

Nitragin Co., The
Milwaukee, Wis.
(See Adv. on Page 257)

Sewerage Commission
Milwaukee, Wis.
(See Adv. on Page 25)

Urbana Laboratories
Urbana, Ill.
(See Adv. on Page 254)

PLANT FOODS

Agricultural Laboratories, Inc.
Columbus, Ohio

Bohlender Plant Chemicals, Inc.
Tippecanoe City, Ohio
(See Adv. on Page 283)

Carus Chemical Co.
La Salle, Ill.
(See Adv. on Page 237)

Du Pont de Nemours & Co., Inc., E. I.
Grasselli Chemicals Div.
Wilmington, Del.

Garden Hose Insecticide Co.
Kalamazoo, Mich.

Natural Guano Co.
Aurora, Ill.
(See Adv. on Page 235)

Plantabbs Corporation
Baltimore, Md.
(See Adv. on Page 253)

Pulverized Manure Co.
Chicago, Ill.
(See Adv. on Page 235)

Sewerage Commission
Milwaukee, Wis.
(See Adv. on Page 25)

Swift & Co.
Chicago, Ill.

Tennessee Corporation (Loma)
New York, N. Y.
(See Adv. on Pages 17 and 235)

Universal Crushed Shell Co.
Muscatine, Iowa
(See Adv. on Page 303)

Williamson, Inc., Garfield
New York, N. Y.

Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 285)

INOCULATE ALL LEGUMES

with

Superior Strains



Fresh Strong

In bottles *and cans*

Backed by Laboratory, Greenhouse, and Field Research

Increase Your Inoculation Sales Permanently with
Urbana Culture and Urbana Humus Inoculator
On All Approved Lists

Our Superior Strains — Protect Seed Investments
Increase Yields
Improve Quality

THE URBANA LABORATORIES

Urbana, Illinois

Directory Section Index—Pages 4-6-8-10

SEED WORLD *Advertising*



PRODUCES RESULTS

because

SEED WORLD IS CIRCULATED TO PAID SUBSCRIBERS ONLY

Seed World is read by more than 5,000 leading retail dealers, wholesalers and jobbers of seeds and allied agricultural and horticultural products.

Seed World maintains paid correspondents in eleven central markets —Washington, Toronto, St. Louis, Boston, San Francisco, Philadelphia, Milwaukee, Minneapolis, New York, Kansas City and Louisville.

More than forty authoritative representatives contribute articles on successful retail merchandising methods. Most of these men travel by auto through all parts of the United States and Canada, making direct contacts with the retail merchants.

These articles cover every phase of retail merchandising, compiling the catalog, store interiors, collections, local advertising, etc. All are written by experts.

ENORMOUS BUYING FIELD

The clientele of the seed dealer today is not only the home gardener and truck grower—but the real dirt farmer—the man with a big acreage and big buying power.

Seed World circulates to seed store owners with a potential buying power of twelve and one-half million people. In addition to the retail store buyers, the mail order seedsmen reach annually another twenty-seven million five hundred thousand buyers through the distribution of their catalogs.

The annual sales of merchandise other than seed by Seed World Subscribers amount to one hundred and thirty-four million dollars. Many items have been introduced and very successfully sold in this trade, thus producing an enormous business and making it one of the most outstanding distributing industries in the country today.

The seed trade can be a very profitable outlet for your product. Get in touch with Seed World at once and let them, with their years of experience in this field, advise you on selling it.

Our paid circulation means better advertising value.

SEED WORLD 223 W. Jackson Blvd. Chicago Ill.

Advertisers Index—Page 335

Legume Inoculants

SEED INOCULANTS are rapidly taking their place as a staple article in the seed store. Their sale covers most of the months of the year and the buyers of them are always repeat customers. Each year sees more farmers inoculating their legume seed so naturally there is an ever increasing demand for inoculants.

Here are a few pointers that dealers would do well to keep in mind:

When you sell a customer a legume inoculant what you are actually doing is selling him an insurance policy on his crop. He is sure to be a satisfied customer because the inoculant will increase his crop yields.

* * *

Handle inoculants produced only by reliable manufacturers.

* * *

Never sell a customer clover, alfalfa, soybean, lespedeza, Austrian pea, or any other legume seed without selling along with it the proper inoculant.

* * *

Carry on an educational campaign amongst your farmer customers. Manufacturers, agricultural experiment stations, county agents, and others have done much in the way of educating the farmer with regard to the use of legume bacteria, but this educational work must be continued by the dealer and it must be consistent if an increased demand for inoculants is to be experienced.

* * *

Some dealers have found that the best way to convince a skeptical customer of the value of inoculation is to give him a sample to try out. When he sees the marked difference between an inoculated and a non-inoculated plot he will be "sold" for life on the use of inoculants.

* * *

Most inoculants come packed in attractive cans or bottles and lend themselves exceptionally well to window display purposes. These inoculants should be featured at the proper time and window displays are among the best mediums available for promoting sales.

* * *

Sales can also be stimulated by displaying these inoculants on tables in the store, on counters, as well as in prominent positions on shelves.

* * *

There is an unusually attractive margin of profit for the dealer handling legume inoculants.

* * *

Cooperation with the manufacturers of legume inoculants always pays. These manufacturers supply dealers with window display material, electros and advertising copy for seed catalogs and local newspaper advertising, and in numerous other ways help the dealer promote sales.

Directory Section Index—Pages 2-4-6-8-10

Quality Inoculation

Is the Answer!



The picture above, taken April, 1937, on a farm near Cordele, Ga., shows results obtained on Austrian Winter Peas with NITRAGIN. The dark areas on the right were inoculated with NITRAGIN.

1938 PRICE REDUCTIONS AGAIN MARK LOWEST PRICE IN NITRAGIN HISTORY

Now you can sell the leader of them all. Prices in 1938 reduced to popular demand—50c per 1 bu. size alfalfa and clover—made possible as greater production permits greater economies. Quality of product built up by 38 years of constant research.

Cash in on NITRAGIN sales promotion—don't compete with it. Everything is set to increase your NITRAGIN profits in 1938!

Write For New Low Prices

The Original Legume Inoculator
NOBBE-HILTNER PROCESS
NITRAGIN
TRADE MARK REG'D. DEC. 6, 1898 NO. 32212
Restores and Maintains Soil Fertility

The NITRAGIN COMPANY, Inc.

3747 No. Booth St. **Milwaukee, Wis.**

THE MOST WIDELY USED INOCULATOR IN AMERICA

Advertisers Index—Page 335

LAWN IMPLEMENTS AND SUPPLIES

COUPLING—HOSE

Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)

CUTTERS—SOD

Lane & Son, M. R.
Ardmore, Pa.

Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 245)

DIGGERS—DANDELION

Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 245)

FURNITURE—LAWN

Hettrick Mfg. Co.
Toledo, Ohio

Homecraft Specialty Mfg. Co.
Mattoon, Ill.

Northwestern Fence & Wire Works
Portland, Ore.

Root Co. of Iowa, A. I.
Council Bluffs, Iowa

Smith Wire & Iron Wks., F. P.
Chicago, Ill.

Staples Foundry Co. (Iron)
Mount Vernon, Ind.

Testrite Instrument Co.
New York, N. Y.

Unadilla Silo Co., Inc.
Unadilla, N. Y.

Universal Wire & Iron Co. (Wire Garden Arches)
Milwaukee, Wis.
(See Adv. on Page 245)

Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)

Woodcraft Co.
Dalton, N. Y.

GLOBES—GAZING

Louisville Pottery Co.
Louisville, Ky.

Testrite Instrument Co.
New York, N. Y.

Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)

HOSE—GARDEN

Electric Hose & Rubber Co.
Wilmington, Del.

Gates Rubber Co.
Denver, Colo.

Goodrich Rubber Co., B. F.
Diamond Mech. Goods Div.
Akron, Ohio

Goodyear Rubber Co.
Akron, Ohio

Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)

Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
(See Adv. on Page 251)

LIME

International Agricultural Corp.
New York, N. Y.

Marble Cliff Quarries Co.
Columbus, Ohio

MOWERS—LAWN

Blair Mfg. Co.
Springfield, Mass.

Clipper Mfg. Co.
Dixon, Ill.
(See Adv. on Page 259)

Coldwell Lawn Mower Co.
Newburgh, N. Y.

Conibear Power Mower Co.
Lakeland, Fla.

Cooper Mfg. Co. (Power)
Marshalltown, Iowa

Eclipse Lawn Mower Co. (Power & Hand)
Phophetstown, Ill.
(See Adv. on Page 259)

Gilson-Bolens Mfg. Co. (Power)
Port Washington, Wis.

Granite State Mowing Machine Co.
Hinsdale, N. H.

Ideal Power Lawn Mower Co. (Power)
Lansing, Mich.

Jacobsen Mfg. Co. (Power)
Racine, Wis.

Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)

Mast, Foos Co.
Springfield, Ohio

Moto-Mower Co. (Power)
Detroit, Mich.

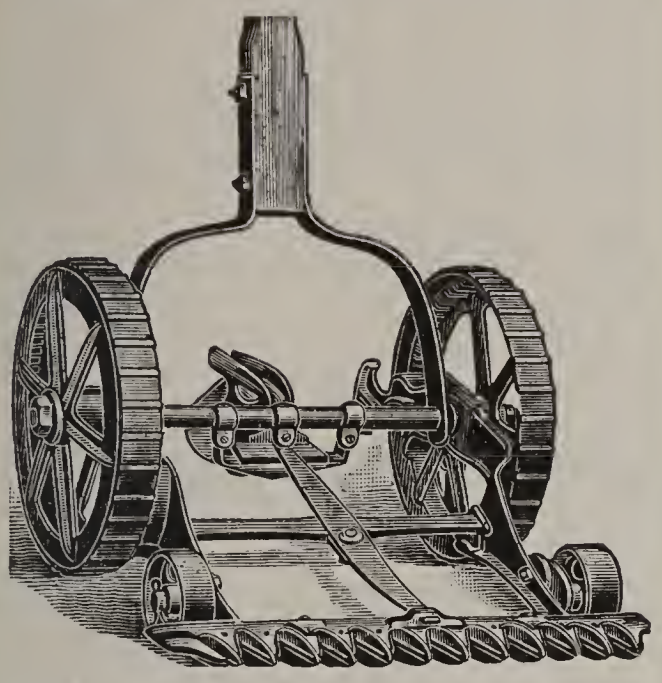
New Beeman Tractor Co., The (Power)
Minneapolis, Minn.

New England Toro Co.
West Newton, Mass.

Outboard Motors Corp.
Milwaukee, Wis.

Philadelphia Lawn Mower Co., Inc.
Philadelphia, Pa.

THE "CLIPPER"



If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots . . . the weed will disappear . . . THE CLIPPER WILL DO IT.

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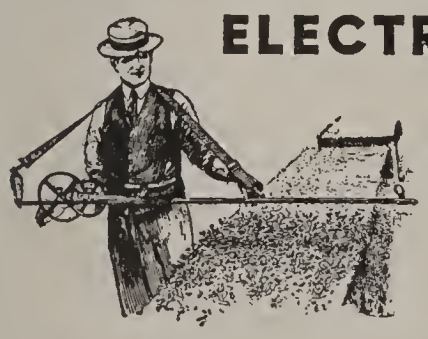
CLIPPER MFG. CO.

DIXON, ILLINOIS

Dept. S-W.

Little Wonder

HEDGE TRIMMER



ELECTRIC AND HAND POWER



Thousands in use all over the world—A Marvel—Trims ten times faster than hand shears. Easy to operate. A model and size to meet every need.

Write for distributors' terms

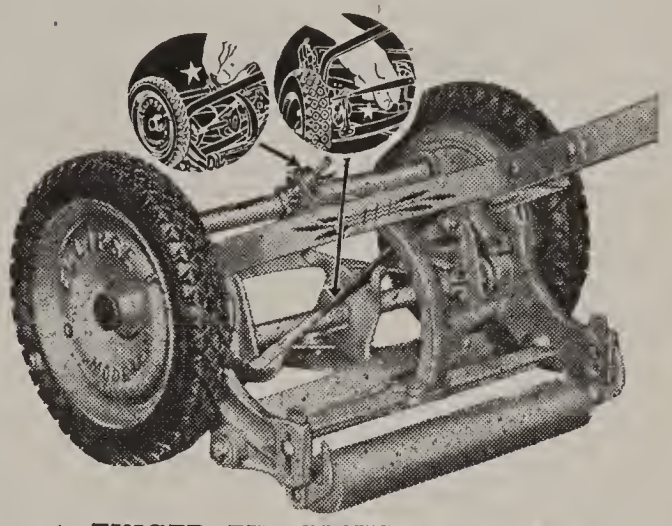
Detco Mfg. Co.

OAKS, Montg. Co., PA.

Eclipse

ALWAYS SUPREME

The Mower With Modern Conveniences



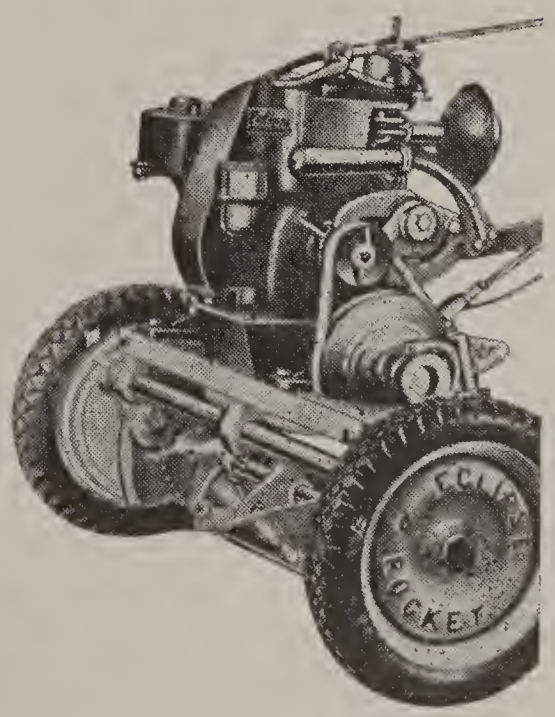
★ **FINGER TIP ADJUSTMENT. Perfect Cutting for every mowing.**

★ **AUTOMATIC SELF SHARPENING — no expense — sharpens right on the lawn.**

★ **WINGED PERFORMANCE on Goodyear Pneumatic Tires.**

ECLIPSE *"ROCKET"*

$77.50 F. O. B. FACTORY



Modernized mowing for home owners is now available with this 20" cut Eclipse Power Mower. A complete Power Line from 20" to 90" cut, both roller and wheel type, is built by Eclipse. All models roll on rubber.

ECLIPSE LAWN MOWER CO.

Manufacturers

PROPHETSTOWN, Illinois, U. S. A.

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LAWN IMPLEMENTS AND SUPPLIES—Continued

Mowers—Lawn—Continued

Shaw Mfg. Co. (Power)
Galesburg, Kans.
Stearns & Co., E. C. (Power)
Syracuse, N. Y.
Townsend & Co., S. P.
Bloomfield, N. J.
Worcester Lawn Mower Co. (Hand)
Worcester, Mass.
Yardman, Inc.
Jackson, Mich.

NOZZLES—HOSE

Carter Products Corp.
Cleveland, Ohio
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
McClain Bros.
Canton, Ohio
Perfection Sprinkler Co.
Plymouth, Mich.
(See Adv. on Page 261)
Smith & Co., D. B.
Utica, N. Y.

RAKES—DANDELION & LAWN

Hall Mfg. Co. (Lawn)
Cedar Rapids, Iowa
Handle & Excelsior Mfg. Co. (Bamboo)
Picture Rocks, Pa.
Kautenberg & Co., W. E.
Freeport, Ill.
Leonard & Son, A. M. (Lawn)
Piqua, Ohio
(See Adv. on Page 245)
Staff Mfg. Co.
Chicago, Ill.
(See Adv. on Page 261)
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 245)

REELS—HOSE

Anker-Holth Mfg. Co.
Port Huron, Mich.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
Specialty Mfg. Co.
St. Paul, Minn.

ROLLERS—LAWN

Caledonia Bean Harvester Works
Caledonia, N. Y.
Graham & Co., John H.
New York City, N. Y.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
Stoner-Maurer Co.
Monroe, Mich.
Worthington Mower Co.
Stroudsburg, Pa.

SEEDERS—LAWN

(See Seeders—Broadcast—Page 242)

SHEARS—GRASS

Alliance Mfg. Co.
Alliance, Ohio
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
North Wayne Tool Co.
Oakland, Me.
Peck, Stow & Wilcox Co.
Southington, Conn.
Smith & Son, Inc., Seymour
Oakville, Conn.
Tiffany, Carroll R.
Conklin, N. Y.

SPRINKLERS—LAWN

Adams Co.
Dubuque, Iowa
Alsteel Mfg. Co.
Battle Creek, Mich.
Armstrong Electric Products Corp.
Huntington, W. Va.
Campbell Irrigation Co.
Woodbury, N. J.
Chicago Flexible Shaft Co.
Chicago, Ill.
Coldwell Lawn Mower Co.
Newburgh, N. Y.
Dayton Irrigation Co.
Dayton, Ohio
Double Rotary Sprinkler Co.
Kansas City, Mo.
Goodrich Rubber Co., B. F.
Diamond Mech. Goods Div.
Akron, Ohio
Imperial Bit & Snap Co.
Racine, Wis.
(See Adv. on Page 261)
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
March Automatic Irrigation Co.
Muskegon, Mich.
Nu-Way Chemical Spray Co.
Columbus, Ohio
Perfection Sprinkler Co.
Plymouth, Mich.
(See Adv. on Page 261)
Rose Mfg. Co., Frank
Hastings, Nebr.
Smith & Co., D. B.
Utica, N. Y.

PROFITABLE ITEMS *for* SEEDSMEN!



LAWN EDGE TRIMMER No. 136

A practical tool, needed by every home owner.

Plows a clean "U" shaped trench, delivering the cutting on the walk automatically as trimmer is pushed along. No other tool like it.

IMPERIAL BIT & SNAP COMPANY

RACINE WISCONSIN

CATALOG IT for

Extra Profit



Low retail Price and Attractive Discounts Make the Dumore Electric Hedge Trimmer a Popular Catalog Item for Seedsmen.

● If you want to enjoy generous extra dividends from your catalog, include this precision-built tool that has taken electric hedge trimming out of the "luxury class." Count these outstanding features: ★ Weight only 3¾ lbs. ★ Reciprocal-radial action cuts tender twigs clean. ★ Cutting width 9 inches. ★ Perfect balance, less vibration, less noise. ★ Retail price only $24.50 (about that of a good lawn mower). Write today for information on the Dumore Hedge Trimmer and special distributor's proposition.

THE DUMORE CO., Dept. D-277, Racine, Wis.

Van self-cleaning

safety

RAKE



REG.
U. S. PAT. OFF.

SELF-CLEANING: Through a very clever, yet simple folding construction of the barrel, the teeth are cleaned on the backward stroke of the rake.

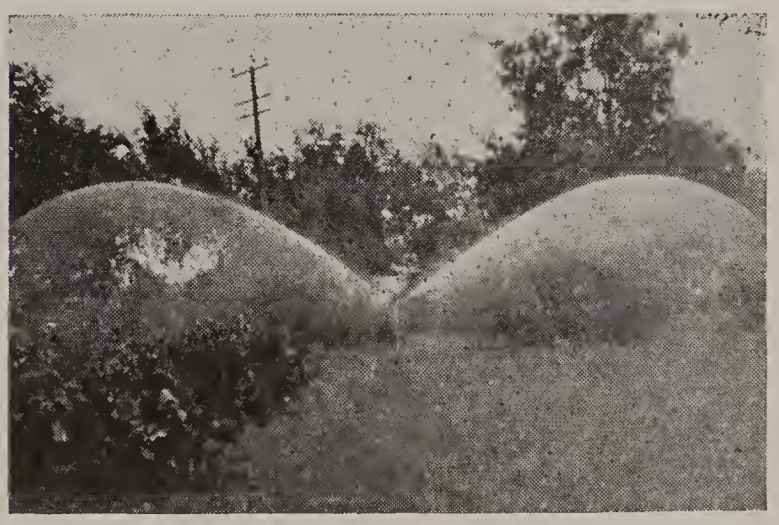
PREVENTS ACCIDENTS: Because of the folding construction of the barrel, the handle will not fly up if the teeth are stepped on, nor will the teeth injure the foot.

LOCKING DEVICE: So designed that the barrel may be locked rigid for tilling the soil.

MFG. BY

STAFF MFG. CO.

3024 CHELTENHAM PL. CHICAGO, ILL.



ANNOUNCING THE NEW "GARDEN SPECIAL"

This New Sprinkler embodies all the features that make Perfections so popular with Golf Courses, Parks, etc.

It is mounted high in a 15" Disc Base, and will never tip over.

With Perfection Patented Spray Disc Nozzles which distribute the water evenly in a rain like spray over entire sprinkled area, it will operate perfectly on as low as 10 lbs. pressure and cover a circle of from 65 ft. to 85 ft. according to the pressure.

No Sprinkler ever offered to Garden Lovers even approaches it for really satisfactory results, long service, and reasonable price.

Write for sample on approval.

DEALERS WANTED LIBERAL DISCOUNT

Manufactured and Fully Guaranteed by

PERFECTION SPRINKLER CO.

PLYMOUTH, MICH.

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LAWN IMPLEMENTS AND SUPPLIES—Concluded

Sprinklers—Lawn—Continued

Thompson Mfg. Co.
Los Angeles, Calif.
White Showers, Inc.
Detroit, Mich.

SUN DIALS

Adams Co.
Dubuque, Iowa
Majestic Co.
Huntington, Ind.
Testrite Instrument Co.
New York, N. Y.
Unadilla Silo Co.
Unadilla, N. Y.

TRAPS—MOLE AND ANIMAL

Animal Trap Co. of America
Lititz, Pa.
Goulard & Olena, Inc.
New York, N. Y.
Grelle, C. E. (Mole)
Portland, Ore.
Macabee Gopher Trap Co. (Gopher)
Los Gatos, Calif.
Michigan Wire Goods Co.
Niles, Mich.
Worcester Wire Novelty Co., Inc.
Baltimore, Md.

TRELLIS

Adams Co.
Dubuque, Iowa
Ball-Biddle Co.
Riverton, N. J.
(See Adv. on Page 251)
Continental Steel Corp. (Steel)
Kokomo, Ind.
Michigan Wire Goods Co.
Niles, Mich.
Standard Ventilator Co.
Lewisburg, Pa.
Unadilla Silo Co.
Unadilla, N. Y.
Universal Wire & Iron Co.
Milwaukee, Wis.
(See Adv. on Page 245)
Wheeling Corrugating Co.
Wheeling, W. Va.
Yoho & Hooker
Youngstown, Ohio

TRIMMERS—HEDGE

Clyde Cutlery Co., The
Clyde, Ohio
Detco Mfg. Co. (Hand and Power)
Oaks, Montgomery Co., Pa.
(See Adv. on Page 259)
Dumore Co. (Electric)
Racine, Wis.
(See Adv. on Page 261)
Disston & Sons, Inc., Henry
Philadelphia, Pa.
Jaeger Prod. Co.
Trenton, N. J.
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
Smith & Son, Inc., Seymour
Oakville, Conn.
Village Blacksmith Folks, The
Watertown, Wis.
Wallington Machine Co. (Electric)
Passaic, N. J.

TRIMMERS—LAWN

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Boker & Co., H.
New York, N. Y.
Gardex, Inc.
Michigan City, Ind.
Granite State Mowing Machine Co.
Hinsdale, N. H.
Hall Mfg. Co.
Cedar Rapids, Iowa
Imperial Bit & Snap Co.
Racine, Wis.
(See Adv. on Page 261)
Leonard & Son, A. M.
Piqua, Ohio
(See Adv. on Page 245)
Philadelphia Lawn Mower Co., Inc.
Philadelphia, Pa.
Union Fork & Hoe Co.
Columbus, Ohio
(See Adv. on Page 245)
W. W. Feed Grinder Co.
Wichita, Kansas.

WATERER AND FERTILIZER—ROOT

Hampden Mfg. Co.
New York, N. Y.
Stauffer Machine Works
Honey Brook, Pa.
Tatroe's
Coffeyville, Kans.

YARD FIGURES
(Animals, Dolls, Etc.)

Adams Co. (Cast Iron Rabbits)
Dubuque, Iowa
National Pet Shops
St. Louis, Mo.
Unadilla Silo Co.
Unadilla, N. Y.
Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)

IMPORTANT SPRAYING INFORMATION

MANUFACTURERS of insecticides and fungicides have scientifically prepared many sprays and dusts that have proved effective in the control and eradication of the numerous insects and fungus diseases that attack growing crops. These products are sold by the manufacturers under various trade names. In order to make it easier for the users of this Guide to ascertain which insecticides or fungicides to use in combating or controlling a certain pest or disease, the following table is arranged, giving the names of products that have been found effective.

Ansbacher-Siegle Corp., Brooklyn, N. Y.
"Ansbacher Calcium Arsenate"
"Ansbacher Covrol"
"Ansbacher Green Lead Arsenate"
"Ansbacher Lead Arsenate"
"Ansbacher Lime Sulphur Solution"
"Ansbacher Liquid Kubatox"
"Ansbacher Nicotine Sulphate 40%"
"Ansbacher Oxo Bordeau"
"Ansbacher Spreader"
"Ansbacher Sulcoloid"
"Ansico"

Bonide Chemical Co., Inc. Utica, N. Y.
"Bonide Flea Beetle & Aphid Conc."
"Bonide Flea Beetle & Aphid Spray"
"Bonide Thrip Concentrate"
"Bonide Thrip Dust"
"Greentox"
"Hexpo"
"Rodee Dust"
"Rotenone .75 Dust"
"Rotre"
"QB Dust No. 1, No. 2 and No. 3"

California Spray-Chemical Corp., Richmond, Cal.
"Caltox"
"Coposil Fungicide"
"Flotox Sulphur"
"Garden Botano Dust"
"Garden Volck Spray"
"Greenhouse Volck"
"Kleenup Dormant Oil Spray"
"Nursery Volck"
"Ortho Standard Lead Arsenate"
"Ortho Tar Oil Emulsion"

General Chemical Co., New York, N. Y.
"Orchard Brand 'Astringent' Lead Arsenate"
"Orchard Brand Apple Dritomic Sulphur & Lime Sulphur Solution"
"Orchard Brand Bordeaux Mixture"
"Orchard Brand Calcium Arsenate"
"Orchard Brand Dritomic Sulphur"
"Orchard Brand Lime Sulphur"
"Orchard Brand Nicotine Sulphate 40%"
"Orchard Brand Oil Emulsion 83"
"Orchard Brand Potato Spray"
"Orchard Brand Veget-Aid Dust"
"Orchard Brand X-13"

Hammond Paint & Chemical Co., Beacon, N. Y.
"B-B Dust"
"Copper Solution"
"Formacide"
"Grape & Rose Dust"
"Liquid Slug Shot"
"Slug Shot Dust"
"Naptoside"
"Pyrethrum Powder"
"Sodium Oleate"
"Stabilized Rotenone Dust"
"Thrip Juice Spray"
"Triad"
"Whale Oil Soap"

Kay-Fries Chemicals, Inc., New York, N. Y.
"Nicotrol"
"Penetrol"

Mechling Bros., Chemicals, Div. General Chem. Co., Camden, N. J.
"Hydroxcide"
"Mechling's Scale Oil"
"Pyrote"
"Rotenone 75"
"Sulrote"

Metals Refining Company, Div. Glidden Co., Hammond, Ind.
"Metrox Cuprous Oxide"

Nicotine Mfg. Co., St. Louis, Mo.
"Nicotinum"
"Red Ring Nikoteen"

Morris B. Reade, Inc., Belleville, N. J.
"Agri-Pax"
"Dormo Pax"
"Kilrust"

Ridge Tool Co. (Insecticide Division), Elyria, Ohio
"Devil Dust"

Rohm & Haas Co., Philadelphia, Pa.
"Cuprocide"
"Cupro-K"
"Form-O-Fume"
"Lethane 440"
"Lethane Spreader"

Rose Mfg. Co., Philadelphia, Pa.
"Aphistrogen"
"Insectrogen"
"Killogen"
"Mexogen"
"Triogen"

Tobacco By-Products & Chemical Corp., Louisville, Ky.
"Blackleaf 40"
"Nico-Fume Liquid"

Andrew Wilson, Inc., Springfield, N. J.
"Awinc"
"Fung-O"
"O. K. Plant Spray"
"Roto-Spra"
"Scale-O"
"Tri-Tox-Cide"

Spraying Table

	Disease or Insect	What to Use
Apple and Pear	Codling Moth	Agri-Pax; Ansbacher Lead Arsenate; Black Leaf 40; Greentox; Nicotinum; Orchard Brand "Astringent" Lead Arsenate; "Ortho" Standard Lead Arsenate; Rotre; Slug Shot Dust; Wilson's Roto-Spra.
	San Jose Scale	Ansbacher Lime Sulphur Solution; Dormo Pax; Kleenup Dormant Oil Spray; Lethane 440; Mechling's Scale Oil; Orchard Brand Lime Sulphur; Orchard Brand Oil Emulsion 83; Wilson's Scale-0.
	Scab	Ansbacher Lime Sulphur Solution; Ansbacher Oxo Bordeaux; Ansbacher Sulcoloid; Coposil Fungicide; Metrox Cuprous Oxide; Orchard Brand Apple Dritomic Sulphur and Lime Sulphur Solution.
	Wooly Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Devil Dust; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate; Ortho Tar Oil Emulsion; Pyrote; Rotre; Penetrol; Thrip Juice Spray; Triad; Wilson's Roto Spra.

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	Disease or Insect	What to Use
Asparagus	Asparagus Beetle	Agri-Pax; Awinc; Caltox; Devil Dust; Greentox; Liquid Slug Shot; Orchard Brand Arsenate of Lead; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
	Rust	Copper Solution; Kilrust; Wilson's Fung-0.
Aster	Aphis	Agri-Pax: Ansbacher Liquid Kubatox; Awinc; Bonide Flea Beetle & Aphid Conc.; Black Leaf 40; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; 0. K. Plant Spray; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad.
	Aster Beetle	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Caltox; Devil Dust; Dutox; Greentox; Liquid Slug Shot; Orchard Brand Arsenate of Lead; Orchard Brand Veget-Aid Dust; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Wilson's Roto-Spra.
Beans	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate; Orchard Brand X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's Tri-Tox-Cide.
	Mexican Bean Beetle	Agri-Pax; Awinc; B-B Dust; Bonide Flea Beetle & Aphid Spray; Caltox; Devil Dust; Greentox; Liquid Slug Shot; Mexogen; Orchard Brand Bordeaux Dust; Orchard Brand Veget-Aid Dust; Pyrote; QB Dust No. 1; Rodee Dust; Rotenone .75 Dust; Slug Shot; Sulrote; Wilson's Tri-Tox-Cide.
Beets	Leaf Spot	Coposil Fungicide; Orchard Brand Bordeaux; Pyrote.
	Beet Leaf Hopper	Ansbacher Liquid Kubatox; Bonide Flea Beetle & Aphid Spray; Devil Dust; Greentox; Liquid Slug Shot; Orchard Brand Veget-Aid Dust; QB Dust No. 1; Rotenone .75 Dust; Sulrote; Wilson's Tri-Tox-Cide.
Cabbage Cauliflower Brussels Sprouts Turnip	Cabbage Worm	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Spray; Garden Botano Dust; Greentox; Insectrogen; Orchard Brand Calcium Arsenate; Orchard Brand Veget-Aid Dust; Penetrol; QB Dust No. 1, No. 2 and No. 3; Pyrote; Rotenone 75; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
Carrot Parsnip	Web Worm	Agri-Pax; Bonide Flea Beetle & Aphid Spray; Garden Botano Dust; Greentox; Orchard Brand Calcium Arsenate; Orchard Brand Veget-Aid Dust; QB Dust No. 1, No. 2 and No. 3; Rotenone Dust; Wilson's Tri-Tox-Cide.
	Soft Rot	Coposil Fungicide; Orchard Brand Bordeaux Dust.
Carnation	Thrips	Agri-Pax; Awinc; Black Leaf 40; Bonide Thrip Concentrate; Devil Dust; Greentox; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Veget-Aid Dust; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray, Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Devil Dust; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad; Wilson's 0. K. Plant Spray; Wilson's Tri-Tox-Cide.
Celery	Blight	Coposil Fungicide; Copper Solution; Cuprocide; Grape & Rose Dust; Hydroxcide; Orchard Brand Bordeaux Dust; Triad.
	Leaf Tyer	Agri-Pax; Bonide Thrip Concentrate; Greentox; Hydroxcide; Orchard Brand Bordeaux; Wilson's Tri-Tox-Cide.
Cherry	Blight	Cupro-K.
	Rot	Ansbacher Sulcoloid; Orchard Brand Dritomic Sulphate.
	Curculio	Greentox; Orchard Brand "Astringent" Lead Arsenate; Penetrol; Rotre; Wilson's Roto-Spra.
Chrysan-themum	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; 0. K. Plant Spray; Orchard Brand X-13; Orchard Brand Nicotine Sulphate 40%; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad; Wilson's Awinc Pyrethrum Spray.
	Thrips	Agri-Pax; Awinc; Black Leaf 40; Bonide Thrip Conc.; Crown Dust; Devil Dust; Garden Volck Spray; Greentox; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Rodee Dust; Thrip Juice Spray; Wilson's Tri-Tox-Cide.
Corn— Sweet	Ear Worm	Caltox; Dutox; Greentox; Orchard Brand Calcium Arsenate; Slug Shot Dust; Wilson's Tri-Tox-Cide.
	Stalk Borer	No sure remedy—burns stalks.

	Disease or Insect	What to Use
Cucumber	Striped Beetle	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Caltox; Devil Dust; Greentox; Liquid Slug Shot; Orchard Brand Bordeaux Dust; Orchard Brand Veget-Aid Dust; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad; Tri-Tox-Cide.
Currant	San Jose Scale	Ansbacher Lime Sulphur Solution; Lethane 440; Nursery Volck; Orchard Brand Lime Sulphur Solution; Orchard Brand Oil Emulsion 83; Penetrol; Scale-O.
	Worm	Agri-Pax; Black Leaf 40; Bonide Flea Beetle Conc.; Garden Volck Spray; Greentox; Insectrogen; O. K. Plant Spray; Orchard Brand X-13; Pyrote; Slug Shot Dust; Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
Dahlia	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Bonide Thrip Conc.; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate; Orchard Brand X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's O. K. Plant Spray.
	Tarnished Plant Bug	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Bonide Thrip Conc.; Devil Dust; Greentox; Liquid Slug Shot; Orchard Brand X-13; Pyrote; Slug Shot Dust; Wilson's O. K. Plant Spray.
	Thrips	Agri-Pax; Awinc; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Bonide Thrip Conc.; Devil Dust; Garden Volck Spray; Greentox; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Thrip Juice Spray; Wilson's Tri-Tox-Cide.
Ferns	Mealy Bug	Agri-Pax; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Greenhouse Volck; Greentox; Lethane 440; Liquid Slug Shot; Nicotrol; Wilson's Roto-Spra.
	White Fly	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Greenhouse Volck; Greentox; Lethane 440; Orchard Brand X-13; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Wilson's Roto-Spra.
	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; O. K. Plant Spray; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad.
Gooseberry	Mildew	Copper Solution; Devil Dust; Grape & Rose Dust; Orchard Brand Bordeaux Mixture; Triad; Wilson's Fung-O; Wilson's Tri-Tox-Cide.
	Worm	Agri-Pax; Awinc; Greentox; Insectrogen; Rotre; Slug Shot Dust; Wilson's Tri-Tox-Cide.
Lettuce	Aphids	Agri-Pax; Ansbacher Liquid Kubatox; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Greentox; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Thrip Juice Spray; Triad; Wilson's Tri-Tox-Cide.
	Mildew	Copper Solution; Devil Dust; Flotox Sulphur; Grape & Rose Dust; Hydroxcide; Liquid Slug Shot; Orchard Brand Bordeaux Mixture; Triad; Wilson's Tri-Tox-Cide.
	Grav Mould	Orchard Brand Bordeaux Mixture.
Nasturtium	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; O. K. Plant Spray; Orchard Brand Nicotine Sulphate; Orchard Brand X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's Roto-Spra.
Onion	Thrips	Agri-Pax; Black Leaf 40; Bonide Thrip Conc.; Bonide Thrip Dust; Devil Dust; Garden Volck Spray; Greentox; Lethane 440; Loro; Naptoside; Nico-Fume Liquid; Nicotrol; Orchard Brand Nicotine Sulphate; Penetrol; Pyrote; Red Ring Nikoteen; Wilson's Tri-Tox-Cide.
	Maggot	Orchard Brand Veget-Aid Dust; QB Dust; Rodee Dust; Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
Peas	Blight	Copper Solution; Grape & Rose Dust; Triad.
	Aphids	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Greentox; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
Plum	Rot	Ansbacher Sulcoloid; Flotox Wettable Sulphur; Orchard Brand Dritomic Sulphur; Orchard Brand Lime Sulphur Solution.
	Curculio	Agri-Pax; Orchard Brand "Astringent" Lead Arsenate; Ortho Lead Arsenate; Penetrol; Rotre; Wilson's Roto-Spra.

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	Disease or Insect	What to Use
Potato	Early Blight	Coposil; Copper Solution; Grape & Rose Dust; Hexpo; Hydroxcide; Orchard Brand Bordeaux Mixture & Potato Spray; Ortho Powdered Bordeaux; Triad.
	Late Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Orchard Brand Bordeaux Mixture & Potato Spray.
	Potato Bugs	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Greentox; Hexpo; Hydroxcide; Insectogen; Orchard Brand Calcium Arsenate; Orchard Brand Potato Spray; Penetrol; Pyrote; Slug Shot Dust; Wilson's Tri-Tox-Cide.
Radish	Cabbage Worm	Agri-Pax; Bonide Flea Beetle & Aphid Conc.; Greentox; Liquid Slug Shot; Penetrol; Rotenone Dust; Orchard Brand Veget-Aid Dust; Pyrote; Slug Shot Dust; Wilson's Tri-Tox-Cide.
	Harlequin Bug	Bonide Flea Beetle & Aphid Spray; Greentox; Liquid Slug Shot; QB Dust No. 3; Wilson's Tri-Tox-Cide.
	Aphids	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Greentox; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate & X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's Tri-Tox-Cide.
Roses	Red Spider	Agri-Pax; Awinc; Garden Volck Spray; Greentox; Lethane 440; Liquid Slug Shot; Nursery Volck Spray; Orchard Brand Dritomic Sulphur; Pyrote; Thrip Juice Spray; Wilson's Tri-Tox-Cide.
	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Black Leaf 40; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; O. K. Plant Spray; Orchard Brand Nicotine Sulphate 40%; Orchard Brand X-13; Penetrol; Pyrote; Red Ring Nikoteen; Rose Dust; Thrip Juice Spray; Triad; Wilson's Awinc Pyrethrum Spray; Wilson's Tri-Tox-Cide.
	Hard Shelled Rose Bugs	Greentox;
	Leaf Roller	Agri-Pax; Awinc; Devil Dust; Garden Caltox Insecticide-Fungicide; Greentox; Liquid Slug Shot; Orchard Brand X-13; Sulrote; Thrip Juice Spray; Wilson's Tri-Tox-Cide.
	Beetles	Agri-Pax; Awinc; Devil Dust; Garden Caltox Insecticide-Fungicide; Greentox; Liquid Slug Shot; Orchard Brand Veget-Aid Dust; Orchard Brand "Astringent" Lead Arsenate; Pyrote; Slug Shot Dust; SS-3; Stabilized Rotenone Dust; Sulrote; Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
Spinach	Flea Beetle	Agri-Pax; Bonide Flea Beetle & Aphid Spray; Dutox; Garden Caltox Insecticide-Fungicide; Greentox; Orchard Brand Veget-Aid Dust; Slug Shot; Stabilized Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
	Aphids	Agri-Pax; Ansbacher Liquid Kubatox; Bonide Flea Beetle & Aphid Spray; Devil Dust; Greentox; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate & X-13; Penetrol; Pyrote; Thrip Juice Spray; Wilson's Tri-Tox-Cide.
	Leaf Miner	Bonide Flea Beetle & Aphid Spray; Greentox; Liquid Slug Shot; Pyrote; Wilson's Tri-Tox-Cide.
Squash	Striped Cucumber Beetle	Agri-Pax; Devil Dust; Garden Caltox Insecticide-Fungicide; Greentox; Liquid Slug Shot; Orchard Brand "Astringent" Lead Arsenate; Calcium Arsenate and Veget-Aid Dust; QB Dust No. 3; Rotenone Dust; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Wilson's Tri-Tox-Cide.
	Squash Bug	Agri-Pax; Devil Dust; Greentox; Liquid Slug Shot; Orchard Brand Veget-Aid Dust; QB Dust No. 3; Wilson's Tri-Tox-Cide.
	Squash Vine Borer	Black Leaf 40; Bonide Flea Beetle & Aphid Spray; Greentox; Liquid Slug Shot; Pyrote; QB Dust No. 3; Wilson's Tri-Tox-Cide.
Sweet Pea	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Bleak Leaf 40; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; O. K. Plant Spray; Orchard Brand X-13; Orchard Brand Nicotine Sulphate 40%; Penetrol; Pyrote; QB Dust No. 3; Red Ring Nikoteen; Thrip Juice Spray; Triad; Wilson's Roto-Spra.
Tomato	Anthracnose	Orchard Brand Bordeaux Mixture; Thrip Juice; Wilson's Fung-O.
	Leaf Spot	Copper Solution; Fung-O; Orchard Brand Bordeaux Mixture.
	Tomato Worm	Agri-Pax; Bonide Flea Beetle & Aphid Conc.; Greentox; Liquid Slug Shot; Orchard Brand "Astringent" Lead Arsenate; QB Dust No. 3; Slug Shot Dust; Sulrote; Wilson's Tri-Tox-Cide.
Watermelon and Muskmelon	Aphis	Agri-Pax; Ansbacher Liquid Kubatox; Awinc; Black Leaf 40; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Garden Volck Spray; Greentox; Killogen; Lethane 440; Liquid Slug Shot; Nicotinum; Nicotrol; Orchard Brand Nicotine Sulphate 40% and X-13; Penetrol; Pyrote; Thrip Juice Spray; Triad; Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
	Beetles	Agri-Pax; Awinc; Bonide Flea Beetle & Aphid Conc.; Devil Dust; Garden Caltox Insecticide-Fungicide; Greentox; Orchard Brand Bordeaux Dust; Orchard Brand Veget-Aid Dust; Pyrote; QB Dust No. 3; Slug Shot Dust; Stabilized Rotenone Dust; Wilson's Roto-Spra; Wilson's Tri-Tox-Cide.
	Anthracnose	Liquid Slug Shot; Orchard Brand Bordeaux Mixture; Thrip Juice; Wilson's Fung-O.

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Larger PROFITS and Greater PROTECTION

for Dealers in

Cali-Spray
CACCO PRODUCT
TRADE MARK

DUSTERS - SPRAYERS



Calispray Dusters have an abundance of power to drive over the tops of full-grown fruit trees.

For more than 20 years Calispray machines have been used and recommended by experiment stations and universities, not only in the United States, but in foreign countries in all parts of the world as well. Each Calispray machine is the finest in its price class.



Calispray Sprayers produce high pressure easily. Spray is broken into the finest mist and produced in a continuous stream.

Dealers' efforts are protected, not only by the finest merchandise, but also by an "all sales through dealers" policy. No mail order houses or direct sales. Dealers' efforts are supported by farm paper advertising, most complete literature and perfect service.



Calispray Dusters have easy, rapid action. Row crops can be dusted as rapidly as the operator walks.

All Sales Made Through Dealers

We maintain a mailing service, giving the dealer complete dusting and spraying information each month in the year. This includes the current prices, catalogues, folders, and advertising information. If you are not receiving this service regularly, a card will place your name on our list. *Write Today.*

LOS ANGELES CHEMICAL COMPANY

1960 SANTA FE AVENUE • LOS ANGELES, CALIFORNIA

Advertisers Index—Page 335

Sprayers and Dusters

WHEN WE consider that the seed dealer sells over two million dollars worth of sprayers and dusters annually, we commence to realize what an important part these items play in the life of every community. The home owner very rarely stops to consider how much money he spends for sprayers—what he is primarily interested in is getting a perfect vegetable, flower, or piece of fruit.

Following are a few pointers that should aid the dealer in his selling effort:

Sprayers of various types and sizes are needed by the housewife, the farmer, the home gardener, the market gardener, the greenhouse man, the fruit grower, the cotton grower, the potato grower, the dairyman, and others.

* * *

Have a thorough knowledge of what material to spray with and when to spray, so that you can pass intelligent advice on to your customers.

* * *

Power sprayers and dusters can best be sold by personal contact. Have a representative call on prospective customers and whenever possible make demonstrations.

Hand sprayers and dusters can be attractively arranged in window displays and the time to show them is, of course, when there is a demand in the community for them. The proper kind of a display made at just the right time is sure to result in a large number of sales.

* * *

Place sprayers in strategic positions around the store. They are an easy item to display as they fit in almost any place. Racks on which to show them can be easily constructed and they can be moved conveniently from place to place in the store.

* * *

Advertise your sprayers in local papers at the proper time of year. Manufacturers will cooperate with you in this respect.

* * *

Cooperate closely with reliable sprayer and duster manufacturers. They are in a position to give you some wonderful sales helps. They have display material in the form of posters, booklets, etc., that they furnish to dealers. In many cases they even offer the services of one of their salesmen to assist dealers in their sales promotion work.

Patronize those who made it possible to publish this Directory

See Advertisers' Index on Pages 335 and 336

HUDSON

GET YOUR PROFIT FROM HUDSON'S 3 GREAT LINES



1 HUDSON SPRAYERS
All sizes and types from 5 ounces to 100 gallons capacity.



2 HUDSON GARDEN TOOLS
Seeders, cultivators, hand and wheel types, self-cleaning rakes, etc.



3 HUDSON POULTRY EQUIPMENT
Everything the poultry raiser needs.

Everywhere, smart seedsmen are making profits with these fast-selling Hudson lines. They're a "natural" for seed houses . . . easy to sell because for 30 years they've been known everywhere—used everywhere.

LIST THEM IN YOUR CATALOG. They'll add materially to your mail order profits.

SELL THEM AT YOUR STORE—They insure a brisk, over-the-counter business, too!

HOW HUDSON Helps You Sell

Our long experience in merchandising Sprayers, Garden Tools and Poultry Equipment will help you choose the ones that sell best and add most to your profit. Send us a copy of your catalog, or tell us the page size and we'll gladly suggest copy and layout for your own catalog pages. There's no cost or obligation.

HUDSON STOCKS Are Located Near You

You're assured of prompt delivery because complete Hudson stocks are located at these strategic points: Chicago, New York, Philadelphia, Minneapolis, Milwaukee, San Francisco, Omaha, Kansas City. You can't be far from a Hudson source of supply.

Write us today!

H. D. HUDSON MFG. CO.
557 Illinois Street Chicago, Illinois

Advertisers Index—Page 335

Insecticides and Fungicides

INSECTS AND fungus diseases destroy millions of dollars worth of growing crops every year. Be prepared to wage war against these ravaging pests and diseases by supplying your customers with the proper ammunition with which to control or exterminate them!

Here are some pointers that dealers handling insecticides and fungicides should keep in mind:—

When you sell an insecticide or a fungicide you are really selling your customer "crop insurance."

* * *

Keep in stock the important insecticides made by reliable manufacturers. Find out which insects and plant diseases are doing the greatest damage to crops in your territory and then stock the best insecticides and fungicides to combat them.

* * *

Have a spraying chart handy so that you can refer to it and tell your customers what to spray with, also when and how to spray.

* * *

Have some one in your organization who is well versed on the subject so that intelligent and helpful advice can be offered. You will make everlasting friends of your customers if when they come to you with their crop troubles you can help them solve their problems and save their crops.

Most insecticides and fungicides are packed in attractive containers,—some in cans, some in cardboard cartons and some in bottles. They make excellent window display material. Don't fail to make use of your windows by featuring these products at the particular time when there is a demand for them.

* * *

These packages and bottles can also be arranged in attractive counter and shelf displays that in no small measure aid in making sales.

* * *

A customer may have a "sick" plant, a rose bush, a shrub or a tree and he comes to you seeking help for it. It will pay you to have some one who is able to diagnose the trouble and offer a remedy. This builds good will.

* * *

Cooperate closely with the manufacturers of insecticides and fungicides. They are constantly developing, through their research departments, new and more effective products. They supply dealers with booklets describing these new products for distribution to their customers. They prepare excellent spray charts that are a big help to dealers in recommending the proper insecticides and fungicides to customers. These manufacturers are, in fact, always ready and willing to offer the dealer all sorts of sales helps.

What's New in PEST CONTROL?

The "ORTHO"* Line keeps you in step with the times . . . and in step with profits.

The "ORTHO" Garden Trio



Garden **VOLCK Spray,** a complete contact insecticide containing VOLCK Oil Spray, Nicotine, and spreader.



Garden **CALTOX** Dust, combination Fluorine insecticide and Copper fungicide.



Garden **BUG-GO Bait,** a poisoned bait for control of cut worms and other night feeding pests.

"ORTHO" Specialties

Nursery VOLCK Spray, a widely used summer oil spray emulsion known to dealers everywhere.

Greenhouse VOLCK Spray, a special oil spray emulsion for use in greenhouses.

Garden KLEENUP Emulsion, a proven oil spray for dormant use.

ORTHO Mildew Spray, for powdery mildew control.

DEADLINE Insect Barrier, for tree banding to control climbing and crawling insects.

TRIOX Weed Killer, for sterilizing soil to prevent weed growth.

Garden Nicotine TENDUST, a high-kill nicotine dust.

Garden FLOTOX Sulphur, a superfine sulphur for dusting or liquid spraying.

Garden BOTANO Dust, a Rotenone dust in new puffer dusting package.

Garden COPOSIL Fungicide, the successor to Bordeaux Mixture for control of fungous diseases.

ORTHO Rodent Destroyer, a balanced strychnine poisoned ration for gophers, squirrels, rats, mice.

"ORTHO" Staples

ORTHO Garden Lead Arsenate, made from basic lead arsenate.

ORTHO Garden Calcium Arsenate.

ORTHO Garden Bordo, specially prepared Bordeaux mixture.

ORTHO Garden Lime-Sulphur, a powdered dry lime-sulphur.

ORTHO Garden Paris Green.

Write for prices, discounts, name of your nearest distributors, and full information.

CALIFORNIA SPRAY-CHEMICAL CORPORATION

World's Largest Manufacturers of Agricultural Spray Materials.

Elizabeth, New Jersey **Richmond, California**

*Trade Mark Reg. U. S. Pat. Off.

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SPRAYERS AND SPRAY MATERIALS

Insecticides, Fungicides and Repellents

ANIMAL DIPS

Bonide Chem. Co., Inc.
Utica, N. Y.
(See Adv. on Page 275)
Carbola Chemical Co.
Natural Bridge, N. Y.
Carco Spray Co., Inc.
Tacoma, Wash.
Chipman Chemical Co., Inc.
Bound Brook, N. J.
Conkey Co., G. E.
Cleveland, Ohio
Du Pont de Nemours & Co., Inc., E. I.
Grasselli Chemicals Dept.
Wilmington, Del.
General Chemical Co.
New York, N. Y.
Germo Mfg. Co.
St. Louis, Mo.
Good, Inc., James
Philadelphia, Pa.
Lee Co., Geo. H.
Omaha, Nebr.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
(See Adv. on Page 11)
Merck & Co., Inc.
Rahway, N. J.
(See Adv. on Page 237)
Nicotine Mfg. Co.
St. Louis, Mo.
(See Adv. on Page 273)
Pratt Food Co.
Philadelphia, Pa.
Royal Pet Products Co.
Philadelphia, Pa.
Tobacco By-Products & Chem. Corp.
Louisville, Ky.
(See Adv. on Pages 278-282-300-304)

COPPER OXIDE—RED

Dye-Col Products, Inc.
New York, N. Y.
Merck & Co., Inc.
Rahway, N. J.
(See Adv. on Page 237)
Rohm & Haas Co.
Philadelphia, Pa.
(See Adv. on Page 281)

CREOSOTE OIL

C-A Wood Preserver Co.
St. Louis, Mo.
(See Adv. on Page 299)

DISINFECTANTS—SEED

American Cyanamid & Chem. Corp.
New York, N. Y.
Ansbacher-Siegle Corp.
Brooklyn, N. Y.
(See Adv. on Page 279)
Ansul Chemical Co.
Marinette, Wis.
Bayer-Semesan Co., Inc.
Wilmington, Del.
Bowker Chemical Co.
New York, N. Y.
Carus Chemical Co.
La Salle, Ill.
(See Adv. on Page 237)
Castle Chemical Co.
Castle Rock, Minn.
Dye-Col Products, Inc.
New York, N. Y.
Goulard & Olena, Inc.
New York, N. Y.
Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)
Innis, Spieden & Co.
New York, N. Y.
Kiger Chemical Co.
Bowling Green, Ohio
Merck & Co., Inc.
Rahway, N. J.
(See Adv. on Page 237)
Metals Refining Co.
Div. Glidden Co.
Hammond, Ind.
(See Adv. on Page 279)
Rohm & Haas Co.
Philadelphia, Pa.
(See Adv. on Page 281)

DUSTERS

Acmeline Mfg. Co.
Traverse City, Mich.
American Cyanamid & Chem. Corp.
New York, N. Y.
Armstrong Products Corp.
Huntington, W. Va.
Bean Mfg. Co., John
Lansing, Mich.
Bowker Chemical Co.
New York, N. Y.
Brown Co., E. C.
Rochester, N. Y.
Chipman Chem. Co., Inc.
Bound Brook, N. J.
Dobbins Mfg. Co.
North St. Paul, Minn.
(See Adv. on Page 273)
Feeny Manufacturing Co.
Muncie, Ind.
"Friend" Mfg. Co.
Gasport, N. Y.
Hoeft & Co.
North Chicago, Ill.
Hudson Mfg. Co., H. D.
Chicago, Ill.
(See Adv. on Page 269)
Lirio, P. E.
Vineland, N. J.
Los Angeles Chemical Co.
Los Angeles, Calif.
(See Adv. in Page 267)
McCormick Sales Co.
Baltimore, Md.
Messinger Mfg. Co.
Tatamy, Pa.
(See Adv. on Page 333)

DOBBINS *SUPERBILT* SPRAYERS, DUSTERS, PLANTERS

Bighead



Bighead opening. New patented self-lubricating pressure seal, valve plunger. Quick action unit pump.

2 New Superbilt Quality Sprayers. A moderately priced Bighead — a high pressure knapsack. Utility features embodied in design that command public acceptance.

WRITE FOR OUR CATALOG

Knapsack



Extremely high continuous pressure Bighead with hinge cover, 100 lbs. in 7 strokes. Direct connected diaphragm pump. Self oiling ball and socket fulcrum. Center pump. Better balance. Hose and handle can be changed to either right or left side in a "jiffy" whichever is most convenient to the user. Convenient clip holds discharge equipment. Detachable bottom protects all bearings from dirt.

ASK US ABOUT OUR COMPLETE PROGRAM . . . . ELECTROS AND COPY ON REQUEST

DOBBINS MANUFACTURING COMPANY

NORTH SAINT PAUL MINNESOTA

Fine Nicotine Sulphate and Free Nicotine Preparations

A Material For Every Purpose:

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

RED RING BRAND

PRODUCED FOR MORE THAN FORTY YEARS

NICOTINUM
FOR ORCHARD OR POULTRY

NIKOTEEN LIQUID
FOR THE GREENHOUSE

NIKOTEEN POWDER or APHIS PUNK
FOR GREENHOUSE FUMIGATION

NICOTINE MFG. CO.

ST. LOUIS MISSOURI

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SPRAYERS AND SPRAY MATERIALS—Continued

Dusters—Continued

National Sulphur Co.
New York, N. Y.

Niagara Sprayer & Chem. Co.
Middleport, N. Y.

Nico-Dust Mfg. Co.
Los Angeles, Calif.

Peerless Dust Gun Co.
Cleveland, Ohio
(See Adv. on Page 285)

Root Mfg. Co.
Cleveland, Ohio

Smith & Co., Inc., D. B.
Utica, N. Y.

Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 285)

ERADICATORS—WORM

Reade Mfg. Co.
Jersey City, N. J.

Williamson, Inc., Garfield
New York, N. Y.

EXTERMINATORS—ANT

Acme White Lead & Color Works
Detroit, Mich.

American Cyanamid & Chemical Corp.
New York, N. Y.

Antrol Laboratories, Inc.
Los Angeles, Calif.

Bonide Chem. Co., Inc.
Utica, N. Y.
(See Adv. on Page 275)

Buckeye Chemical & Specialty Co.
New York, N. Y.
(See Adv. on Page 275)

Goulard & Olena, Inc. (Traps)
New York, N. Y.

Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)

Lethelin Products Co., Inc.
Manhasset, N. Y.

Murray Co., Edgar A.
Detroit, Mich.

Nott Mfg. Co.
New York, N. Y.

Rotenone Products Co. (Traps)
East Orange, N. J.

Senoret Chemical Co.
St. Louis, Mo.

Tobacco By-Products & Chem. Corp.
Louisville, Ky.
(See Adv. on Pages 278-282-300-304)

Virus Limited, Inc.
New York, N. Y.

EXTERMINATORS—MOLE

American Cyanamid & Chem. Corp.
New York, N. Y.

Atkins & Durbrow, Inc.
New York, N. Y.
(See Adv. on Page 249)

Bohlender Plant Chemicals, Inc.
Tippecanoe City, Ohio
(See Adv. on Page 283)

Cal. Spray Chem. Corp.
Richmond, Cal. and
Elizabeth, N. J.
(See Adv. on Page 271)

Fort Dodge Chemical Co.
Fort Dodge, Iowa
(See Adv. on Page 277)

Green, E. A.
Beverly, N. J.

Hammond Paint & Chem. Co.
Beacon, N. Y.
(See Adv. on Page 281)

Nott Mfg. Co.
New York, N. Y.

Rose Mfg. Co.
Philadelphia, Pa.
(See Adv. on Page 179)

Stumpp & Walter Co.
New York, N. Y.

Virus Limited, Inc.
New York, N. Y.

EXTERMINATORS—PEST

American Cyanamid & Chem. Co.
New York City, N. Y.

Antrol Laboratories
Los Angeles, Cal.

Bonide Chem. Co., Inc.
Utica, N. Y.
(See Adv. on Page 275)

Carbola Chemical Co.
Natural Bridge, N. Y.

Douglas Chemical & Supply Co.
Kansas City, Mo.
(See Adv. on Page 275)

Du Pont de Nemours & Co., Inc., E. I.
Grasselli Chemicals Dept.
Wilmington, Del.

Ft. Dodge Chemical Co.
Ft. Dodge, Iowa
(See Adv. on Page 277)

Good, Inc., Jas.
Philadelphia, Pa.

LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
(See Adv. on Page 11)

Merck & Co., Inc.
Rahway, N. J.
(See Adv. on Page 237)

Penn. Salt Mfg. Co.
General Laboratories Div.
Philadelphia, Pa.

Tanglefoot Co., The
Grand Rapids, Mich.

Wilson, Inc., Andrew
Springfield, N. J.
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EXTERMINATORS—RAT

American Cyanamid & Chem. Corp.
New York, N. Y.

Atkins & Durbrow, Inc.
New York, N. Y.
(See Adv. on Page 249)

Bohlender Plant Chemicals, Inc.
Tippecanoe City, Ohio
(See Adv. on Page 283)

Bonide Chem. Co., Inc.
Utica, N. Y.
(See Adv. on Page 275)

THE GARDEN SPRAY THAT LEADS THE PACK



GREENTOX

A Super Rotenone Spray with Patented Fumigant, Spreader and Wetting Agents.

KILLS 3 WAYS

Contact — Fumes — Stomach Poisoning. Controls the hardier type insects, such as Flea Beetle, Hard Shelled Rose Bug, Red Spider, Mealy Bug, Japanese Beetle and most other varieties of garden insects.

For Efficient Insect Control, Customer Satisfaction and Increased Sales — Stock and Sell GREENTOX.

A remarkable product . . .proclaimed by all users to be the most efficient ant killer on the market.

New patented Self-Feeding Dispensers. Eliminates disagreeable job of washing and removing dead ants from dispenser, safeguards children and pets, keeps out rain, preserves toxicity until entire contents are consumed.

Antzix really eradicates the entire colony in 3 to 5 hours, safely and surely. A rapid seller and good will breeder.

DOGZIX—Dog Repellent.
TRIX—Female Dog Repellent.
CROTOX—Crow Repellent.
DOGEAZ—Dog & Pet, Fly & Mosquito Repellent.



Write for Catalog and Attractive Dealer Proposition.

BONIDE CHEMICAL CO., Inc. Utica, N.Y.

Manufacturers of Special Formula and Complete Line of Rotenone Concentrates, Sprays and Dusts for All Purposes.



K-R-O *FAST-SELLING* RAT EXTERMINATOR!

BIG sales, big profits! Get your share by featuring, displaying K-R-O (kills rats only). It's by far the fastest-selling rat exterminator because it is not a poison, harmless to live stock and poultry, but kills more rats than anything else. K-R-O is made of oven-dried squill, a raticide recommended by U. S. Dept. of Agriculture (Bul. 1533) and has been on the market for ten years. It is steadily advertised in poultry and farm papers. Get behind K-R-O. Retails for 75c in powder form and 35c and $1 Ready Mixed (no bait to buy). A long profit item, a real money-maker. Squill Bulb Counter Display with each purchase. Write us for dealers' prices. K-R-O Company, Springfield, Ohio.

K-R-O
KILLS-RATS-ONLY

BUCKEYE ANTUBE
TRADE MARK REGD

Outdoor and Indoor ANT CONTROL

Made in two sizes:
CC for Clubs and Estates
HH for Household Use

Simple Directions

NO CANS NO BOTTLES

Proven Profitable Item

Write for Proposition.

Originated and Manufactured by
BUCKEYE CHEM. & SPEC. CO.
131-3 East 23 Street
NEW YORK CITY

KEEPS SEED FREE FROM WEEVIL
ANNIA GERM
REGISTERED

OVER **20** *YEARS*
LEADING SEEDSMEN HAVE KILLED
MOTH, WEEVIL & WORMS
WITH
ANNIA GERM . . . 100% ACTIVE

DOUGLAS CHEMICAL & SUPPLY CO.
917-921 Southwest Blvd. KANSAS CITY, MO.

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General Chemical Co.
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Los Angeles Chemical Co.
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Mechling Bros. Chemicals
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"GOPHER DEATH"

Kills

POCKET GOPHERS, GROUND SQUIRRELS, PRAIRIE DOGS



Be prepared to Serve Your Trade with a Rodent Exterminator that has been a Popular Seller for 34 Years.

Write for Prices and Counter Sales Plan

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INSECTICIDES and FUNGICIDES for over 25 YEARS

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A high quality non-poisonous pyrethrum-rotenone concentrated insect spray of proven effectiveness. Kills sucking and chewing insects by contact and through the stomach.

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A non-poisonous Rotenone Sulphur Dusting Mixture, an insecticide and fungicide for controlling chinch bugs in lawn, gladiolus thrips, Mexican Bean Beetles and Black Spot and Mildew on roses.

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Specialists in Insecticides for Japanese Beetle Control.

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For Tomatoes, Potatoes and garden vegetables.

Write for descriptive folders, and prices.

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DIVISION OF GENERAL CHEMICAL COMPANY

CAMDEN, NEW JERSEY.

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Sure Death to Rats and Mice.

Harmless to Chickens.

No Complaint of Odor from Dead Rats or Mice in 12 Years.

No Bait to Mix; Lasts Indefinitely.

They Eat It in Preference to Other Foods on Account of the Scent.

For Years One of the Largest Sellers and Repeaters in the Trade.

Write for Prices and Exclusive Direct-Mail Advertising Deal.

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711 N. Isabel St. GLENDALE, CALIF.



Stop Paying Rat Tax!

Sell Ridge's Red Squill Rat Exterminator, guaranteed to kill rats. It's made of Oven-Dried High Toxic Red Squill, a raticide recommended by U. S. Department of Agriculture Bulletin No. 1533 . . . has been on the market seven years . . . is attractively packaged and easy to use, requires no mixing or preparing . . . comes ready to use. Your customers will appreciate knowing that there actually is a way to exterminate rats without danger. Stock this item now and build your profits by pushing Ridge's Rat Exterminator.

Dealer discounts upon request.

J. W. RIDGE PRODUCTS CO. **ARCADIA, INDIANA**

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Ansul Chemical Co.
Marinette, Wis.
Antrol Laboratories
Los Angeles, Calif.



KILLS INSECT PESTS

The double-action killing power of "Black Leaf 40" provides safe, economical protection against aphis, red bug, thrips, plant lice, etc. Kills by contact and by fumes. No harmful residue. A little makes a lot of spray.

With its varied uses, "Black Leaf 40" sells the year 'round—hence has faster turnover, more profits. Check your stock and write for display material to help you sell.

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Ansbacher-Siegle

CORPORATION

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ANSBACHER TRIANGLE BRAND

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The all-purpose spray

A CATALOG ITEM

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Write for copy and cuts.

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In analyzing grain or seed the use of these forceps will be found a great time saver. Highly nickel-plated and of best material.

Each $1.00; ½ dozen $5.00



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"Copperized Seeds Always Sprout"

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PURE METROX OXIDES

WHY GAMBLE

ON NEXT YEAR'S CROP

when

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CUPROUS OXIDE PREVENTS

DAMPING-OFF

★ FIELD TESTED AND PROVEN

Information on Request

Write . . . Dept. A

METALS REFINING CO.

Division of the Glidden Co.

HAMMOND INDIANA

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Garden Hose Insecticide Co.
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Shepard Laboratories
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Sherwin-Williams Co.
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Stauffer Chemical Co.
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Tanglefoot Company
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Tobacco By-Products & Chemical Corp.
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Good, Inc., James
Philadelphia, Pa.

Goulard & Olena, Inc.
New York, N. Y.

PENETROL

An activator and spreader for nicotine sulphate, a sticker and spreader for:

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The Sulphurs
Bordeaux Mixture
Ground Derris

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A complete self spreading nicotine insecticide

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Dusted on Seed,
Sprayed on Seedlings,
Cuprocide stops damping-off



CUPROCIDE

THE STANDARD RED COPPER OXIDE



To protect vegetables and flowers from Sucking Insects, Spray Lethane

LETHANE 440

For Dusting and Spraying

C U P R O - K

Copper oxychloride fungicide

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222 W. Washington Sq. • Philadelphia, Pa.

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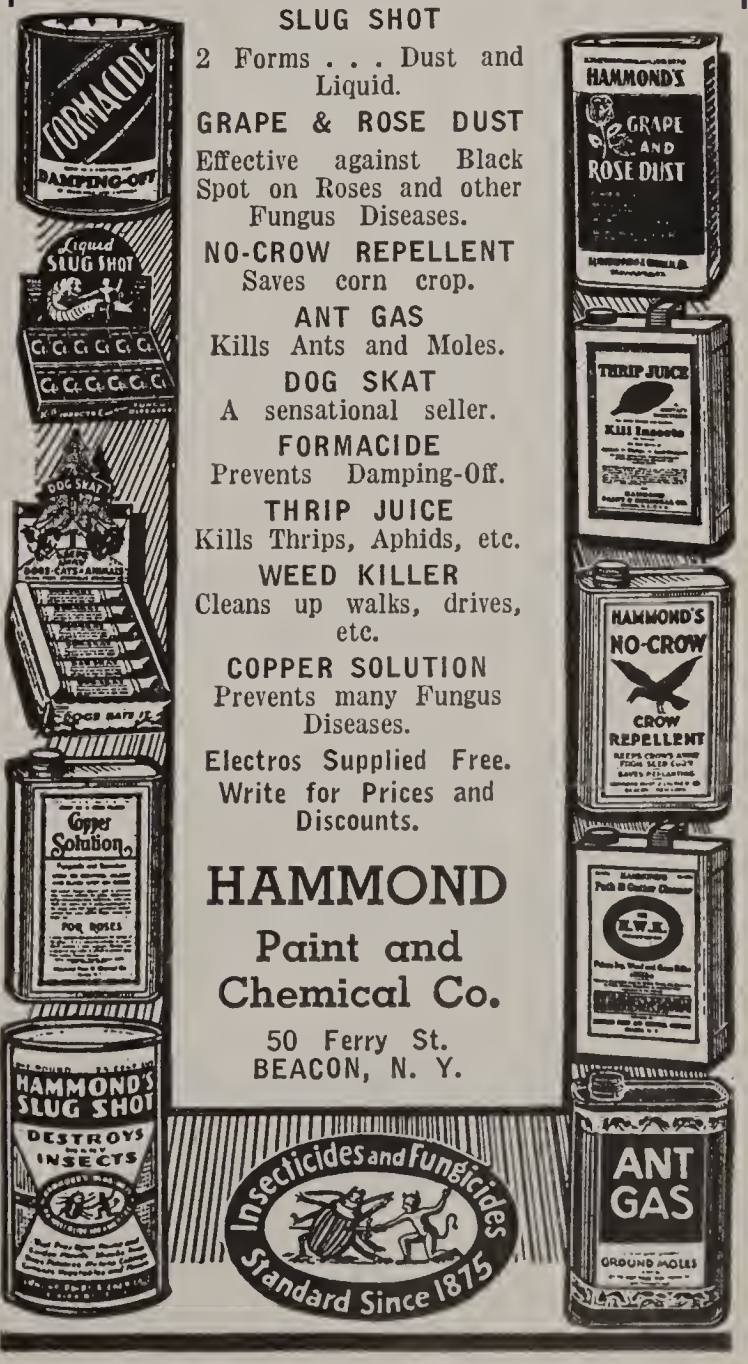
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2 Forms . . . Dust and Liquid.

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Effective against Black Spot on Roses and other Fungus Diseases.

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Saves corn crop.

ANT GAS
Kills Ants and Moles.

DOG SKAT
A sensational seller.

FORMACIDE
Prevents Damping-Off.

THRIP JUICE
Kills Thrips, Aphids, etc.

WEED KILLER
Cleans up walks, drives, etc.

COPPER SOLUTION
Prevents many Fungus Diseases.

Electros Supplied Free.
Write for Prices and Discounts.

HAMMOND
Paint and Chemical Co.
50 Ferry St.
BEACON, N. Y.

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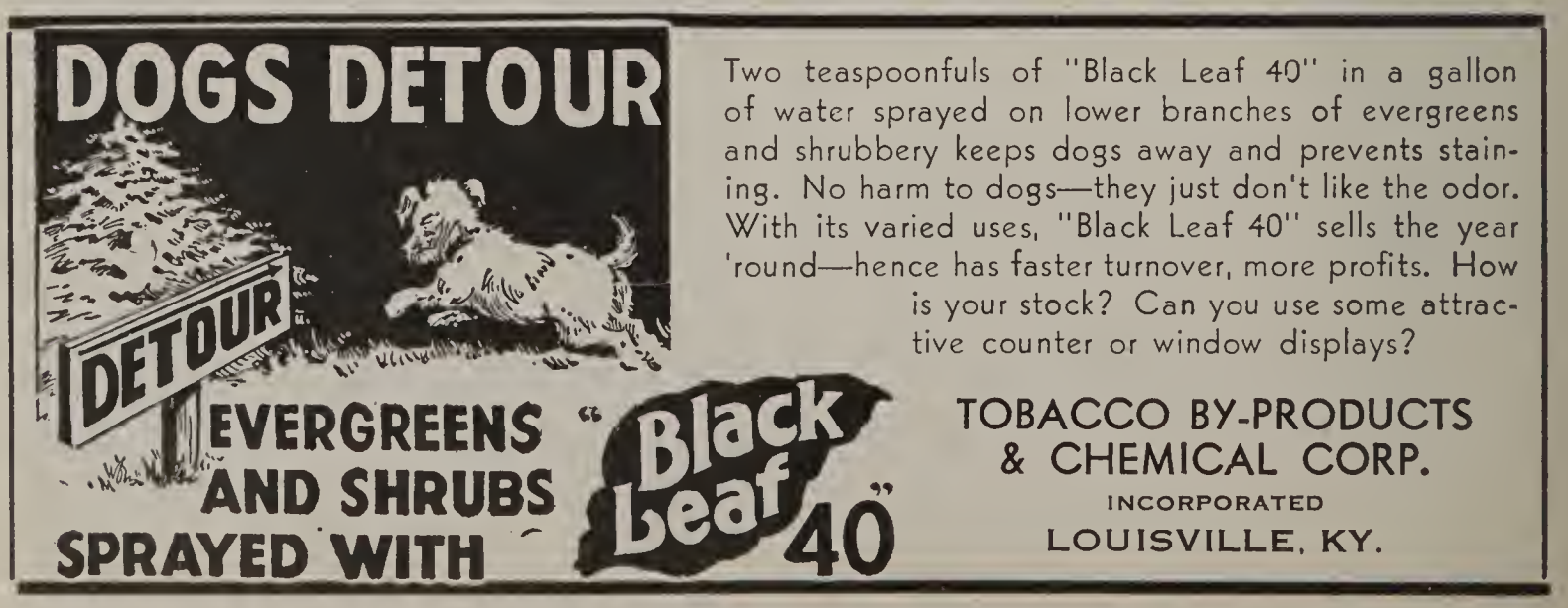
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SPRAYERS

Acmeline Mfg. Co.
Traverse City, Mich.



NEW and DOUBLE-DUTY

DEVIL DUST TRADE MARK



Kills Thrips

and other insects such as aphids, midge, milipeds, slugs and millers.

DEVIL - DUST does Double - Duty — regularly applied, it keeps your plants free from both insect pests and fungous diseases, allows them to grow healthy, vigorous and luxuriant — saves the bother of various agents for different pests.

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Checks Mildew

and many other fungous diseases such as rust and damping - off.

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Solve your plant pest problems with one double - duty dust!

Insecticide Division

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PUT THESE PRODUCTS *to work for you!*



Guaranteed repellent. Indispensable for complete garden protection. Fourth successful year for this quick-selling, repeat volume producer that builds profits for seedsmen and nurserymen everywhere. Catalogue and electro service. Season's supply 69c postpaid, retail.

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Complete, balanced plant food for flowers, trees, shrubs, lawns, vegetables, fruits, house plants. Stimulates root growth, promotes beautiful blooms. Highly effective. Catalogue and electro service. Two sizes: 65c, $1.00 retail, postpaid. Write full information on these profit-making Bohlender products. Address Dept. SG-38.

Foreign Representation Solicited

BOHLENDER PLANT CHEMICALS, Inc.
TIPPECANOE CITY, OHIO

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Los Angeles Chem. Co.
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Lowell Sprayer Co.
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Myers & Bro. Co., The F. E.
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Wilmington, Del.

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Philadelphia, Pa.

Goulard & Olena, Inc.
New York, N. Y.

Hammond Paint & Chemical Co.
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Rose Mfg. Co.
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Synthetic Nitrogen Products Co.
New York, N. Y.

Wilson, Inc., Andrew
Springfield, N. J.
(See Adv. on Page 285)

Wilson's AGRICULTURAL CHEMICALS HAVE BEEN FEATURED BY LEADING SEEDSMEN FOR MORE THAN 35 YEARS.
All nationally advertised, priced right and attractively packaged.
Offer the best in your catalog.

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A powerful yet safe and efficient contact insecticide for general outside or greenhouse use. Recommended for flowering plants and ornamentals. **½ pint 40c; quart $1; gallon $3; 5 gallons $12.**

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A clean, odorless, highly concentrated liquid offering a sure and inexpensive method of killing any undesirable plant growth. One gallon makes 40 to 50 gallons treating solution. **Quart 60c; gallon $1.75; 5 gallons $8.**

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★
Established 10 Years
★



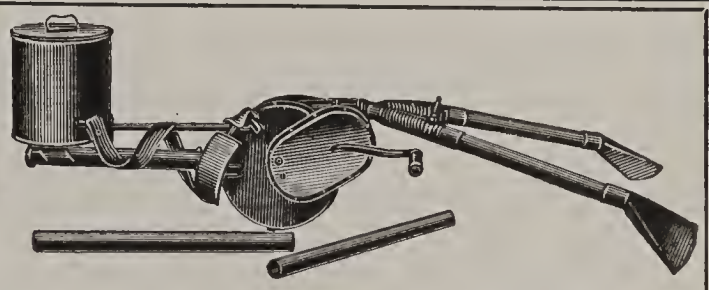
Pioneer Pyrethrum Soap Spray

Non-Poisonous Yet Highly Effective

AGRI-PAX has a large sale among commercial florists who know their insecticides. It is equally useful to home gardeners and is advertised in garden magazines and Sunday newspapers.
We also manufacture a complete line of Horticultural Chemicals.

Write for Prices and Dealer's Discounts

MORRIS B. READE, Inc.
Dept. S BELLEVILLE, N. J.



Model 36

PEERLESS AIR FLOW DUST GUN

For general purpose dusting in hothouse or field use the Peerless hand duster.

New model has increased power with ease of operation.

Adjustable for dusting underneath low foliage or medium size trees.

Built for service. Just the duster to satisfy your trade.

The Peerless pleases particular people

Peerless Dust Gun Co.
5100 St. Clair Ave.
CLEVELAND OHIO

Advertisers Index—Page 335

Pet Supplies

THAT PEOPLE are becoming more "pet minded" is indicated by the fact that more dogs, cats, birds, goldfish and other pets are being sold every year. This increased pet popularity has naturally greatly swelled the sales of pet supplies, foods, remedies, etc. Retail seed dealers all over the country have found that stocking these supplies has increased profits for them and has eliminated dull seasons because there is an active demand for these items the whole year around.

Here are some suggestions for the successful conduct of a pet department:

First of all, make a study of the people in your community to find out what kind of pets they have, and then purchase your stocks accordingly. If you find that dogs are popular, be sure to carry dog foods and remedies, harnesses, leashes, etc. If there are more bird lovers, then, of course, more bird foods and remedies, cages, cuttle bone, and items of that kind should be stocked. In other words, get a good idea of your customers' pets before you order your supplies.

* * *

Be careful not to over-buy. It is much better to buy sparingly at first, until you have definitely discovered your customers' demands, than to be over-enthusiastic and as a result find yourself overstocked with merchandise which you may have difficulty in moving.

The pet business, like any other business, requires actual working experience to make it a success, and like any other business, it takes nerve, initiative and good common sense to get it started and keep it going strong. But remember this—that a pet department always adds to a store's popularity and prestige in any community.

* * *

Open displays are usually found the best for all pet foods and supplies. The stock should be placed on open tables or racks, where people can see and handle it. All merchandise should be plainly price marked. Panels hung on sides of the walls are excellent for the purpose of displaying such articles as dog harnesses, leashes, etc.

* * *

Anything alive in a window never fails to draw a crowd. There are many people who would never think of buying their pet supplies in a seed store until they were reminded of it through an action display of puppies, birds, goldfish, kittens, or some other live animal. When these pets are shown, the numerous supplies incidental to their care, feeding and well being should also be featured.

* * *

Work closely with the manufacturers of pet supplies, pet foods and remedies. They can give you some

mighty important hints on successful merchandising and can supply you with booklets and window and counter display material that will perhaps aid you more than anything else in promoting sales. You can be sure to receive 100 per cent cooperation from these manufacturers.

* * *

Advertisements, featuring some special item handled in your pet department, should be carried consistently in your local newspaper. On special occasions, such as Easter, Valentine's Day, Mother's Day, Christmas, etc., it is always a splendid idea to suggest the presentation of a living gift or something novel in the way of a new bird cage, a blanket, a sleeping basket, a sweater, or a collar for the dog.

Don't forget that most of the customers who buy seeds from you are potential prospects for pet supplies. Pets will create a bond of interest between you and your customer which it would be difficult for you to establish through any other medium.

* * *

If you handle dog supplies, get a list of licensed dog owners from your city license clerk and mail these people a letter and a sample of dog food or some other item, if possible. This is a good way to really find out who the dog owners are in your community and it will help you in getting acquainted with them.

* * *

Make your store headquarters for information on pets, so that your customers will come to you with their pet troubles.

MILLER'S
BIO-TESTED DOG FOODS

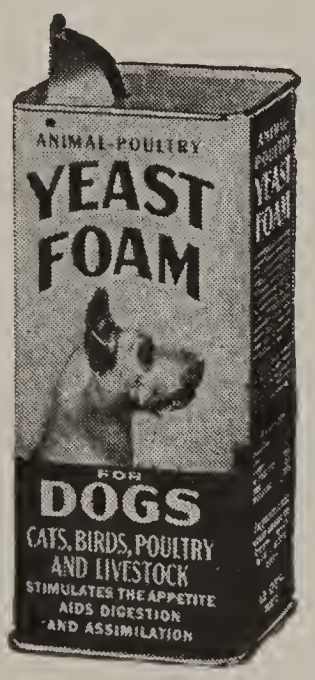
SOLD!

—Easier, Faster, Oftener

That's why Miller's Foods keep making new sales records for seed stores every year. And our new Cooperative Selling Plan will help you build a good volume in a hurry. Write for details.

BATTLE CREEK DOG FOOD CO.
1200 State Street
BATTLE CREEK, MICHIGAN

DOG—BIRD—FISH—FOODS



Great for All Kinds Animals Pet Stock Birds Poultry

—

Gives Results

The above 12-ounce can retails for 50c and is for the owner of one dog, cat, canary, etc. A larger 4-lb. box that retails for $1 is for those who can use more.

The wonderful results obtained by feeding this fine product make it a repeat seller. Dealers should keep it in stock.

Write for prices and particulars.

An Article That Is A Real Repeat Seller

Northwestern Yeast Co. Dept. SD
1750 North Ashland Ave.
Chicago, Illinois

Advertisers Index—Page 335

PETS AND PET SUPPLIES

AQUARIUMS AND SUPPLIES

Advance Pet Supply Co.
New York, N. Y.
American Bird Products Co.
Chicago, Ill.
Grassyfork Fisheries, Inc.
Martinsville, Ind.
Jensen Mfg. Co., Hans
Chicago, Ill.
Lakeview Ponds
Mt. Airy, Cincinnati, Ohio
Morrison, J. Lester (Baby Turtles, alligators, etc.)
Florence, Ala.
National Pet Shops
St. Louis, Mo.
Pacific Goldfish Farm
Westminster, Calif.
Petpak Products Co.
Milwaukee, Wisc.
Royal Pet Products Co.
Philadelphia, Pa.
Spring Lake Fisheries
Waldron, Ind.
Tamms Silica Co. (Pebbles)
Chicago, Ill.
Universal Crushed Shell Co.
Muscatine, Iowa
(See Adv. on Page 303)
Wells Glass Co. (colored glass chips)
Kokomo, Ind.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

BATHS—BIRD

Advance Pet Supply Co.
New York, N. Y.
Batcheller Associates, Fred E.
Deland, Fla.
Brush Pottery Co.
Zanesville, Ohio
Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)
Flower's Tropical Bird Co.
Van Nuys, Calif.
Royal Pet Products Co.
Philadelphia, Pa.
Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)
Zane Pottery Co.
South Zanesville, Ohio
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

BIRDS

Advance Pet Supply Co.
New York, N. Y.
American Bird Products Co.
Chicago, Ill.
Flower's Tropical Bird Co.
Van Nuys, Calif.
Maschke, E. (Canaries)
St. Andreasburg, Harz, Germany
Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.
Odenwald Bird Co.
New York, N. Y.
Robison, Ansel W.
San Francisco, Calif.
Royal Pet Products Co.
Philadelphia, Pa.
Southern's Bird Farm
Clifton Hill, Mo.
Southern Calif. Bird & Pet Exchange
Bell, Calif.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

BIRD FOOD

Advance Pet Supply Co.
New York, N. Y.
American Bird Products Co.
Chicago, Ill.
Atlantis Sales Corp.
Rochester, N. Y.
Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 287)
Bishop, Welles L.
Meriden, Conn.
Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)
Dickinson Co., Albert
Chicago, Ill.
(See Adv. on Page 15)
Duryea Seed Co., Inc.
New York, N. Y.
(See Adv. on Page 39)
Heger Products Co.
St. Paul, Minn.
Hi-Drox Food Sales Co.
New York, N. Y.
Hinton & Co., Inc.
New York, N. Y.
Hungarian Seedculture Co.
Budapest, Hungary
(See Adv. on Page 219)
Johnson, Inc., J. Oliver
Chicago, Ill.
Justrite Co., The
Milwaukee, Wis.
Magnesia Products Co.
Milwaukee, Wis.
Mangelsdorf & Bro., Inc., Ed. F.
St. Louis, Mo.
(See Adv. on Page 145)
McCullough Seed Co., J. Chas.
Cincinnati, Ohio
(See Adv. on Page 3)
Mussog's Bird Store
Philadelphia, Pa.

SELL
PET SUPPLIES
AT A PROFIT

ZENCO OFFERS THE
LARGEST
COMPLETE
LINE

DOG REMEDIES
DOG FURNISHINGS
DOG TOYS and FOODS
BIRD CUPS and ACCESSORIES
AQUARIUM NOVELTIES
TROPICAL FISH SUPPLIES
GOLDFISH ORNAMENTS
ALL OTHER NEEDS

Lowest Prices

Prompt Service

DEALERS: Write for 28 page
FREE CATALOG

ZENITH NOVELTY CO.
720 Broadway NEW YORK CITY



SEED AND GRAIN
SAMPLE PANS

For containing grain or seed after sampling. Advantageous in making analysis and for display. Seamless Wellsville steel—dark blue and non-glaring.

No. 31—12x16x2 in.—3 qts. wheat capacity. Price each, $1.50; half dozen, $8.50. Aluminum, same price.

No. 32—8½x12x1½ in.—1½ qts. wheat capacity. Price each, $1.25; half dozen, $7.00.

Complete Assortment

SEED TRADE
REPORTING BUREAU
223 W. JACKSON BLVD.
CHICAGO, ILL.

"HENDRYX"
REG. U.S. PAT. OFF.



BIRD CAGES
Since 1869

18 MODELS 79
Style and Color Combinations

SEND FOR YOUR COPY
1938 CATALOG No. 46
And Wholesale Price List



Stock a modest assortment of these nationally advertised bird cage outfits and you will be surprised at the extra profits you can make when many seed store items are off season.

Also A Full Line Of
BREEDING CAGES
PARROT CAGES AND STANDS
MOUSE AND SQUIRREL CAGES
FLIGHT CAGES

Two Shipping Points
THE ANDREW B. HENDRYX CO.
FACTORY
NEW HAVEN, CONN.

CHICAGO WAREHOUSE
1327 West Washington Blvd.
CHICAGO, ILL.

Order From Nearest Point

Advertisers Index—Page 335

PETS AND SUPPLIES—Continued

Bird Food—Continued

National Pet Shops
St. Louis, Mo.
Nature Friend, The
New York, N. Y.
Northwestern Yeast Co. (Yeast)
Chicago, Ill.
(See Adv. on Page 287)
Peerless Mfg. Co.
Detroit, Mich.
Petpak Products Co.
Milwaukee, Wis.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 82)
Royal Pet Products Co.
Philadelphia, Pa.
Scarlett & Co., Wm. G.
Baltimore, Md.
(See Adv. on Page 149)
Schell, Inc., Walter S.
Harrisburg, Pa.
(See Adv. on Page 59)
Spratt's Patent, Ltd.
Newark, N. J.
Universal Crushed Shell Co. (Grit)
Muscatine, Iowa
(See Adv. on Page 303)
Von Damm, F. H. (Bird Food)
Brooklyn, N. Y.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

CAGES—BIRD

Advance Pet Supply Co.
New York, N. Y.
Crown Products Co.
Indianapolis, Ind.
Flower's Tropical Bird Co.
Van Nuys, Calif.
Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)
Illinois Supply Co.
Aurora, Ill.
Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.

CAGES—BREEDING

Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)

CAGES—MOUSE—SQUIRREL

Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)

CAGES—FLIGHT

Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)

CAGES—PARROT

Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)

CAGE STANDS—BIRD

Hendryx Co., Andrew B.
New Haven, Conn.
(See Adv. on Page 289)
Mussog's Bird Store
Philadelphia, Pa.
National Pet Shops
St. Louis, Mo.
Royal Pet Products Co.
Philadelphia, Pa.
Vahle, E. C.
Chicago, Ill.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

CAGE SUPPLIES—BIRD

Advance Pet Supply Co.
New York, N. Y.
Atlantis Sales Corp.
Rochester, N. Y.
Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)
Exner Sand & Gravel Co.
New York, N. Y.
Heger Products Co.
St. Paul, Minn.
Jo-Do Specialty Co.
New York, N. Y.
National Pet Shops
St. Louis, Mo.
Peerless Mfg. Co.
Detroit, Mich.
Petpak Products Co.
Milwaukee, Wis.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

CAT FOOD

Heger Products Co.
St. Paul, Minn.
Perfection Foods Co.
Battle Creek, Mich.
Royal Pet Products Co.
Philadelphia, Pa.
Spratt's Patent, Ltd.
Newark, N. J.

CUTTLE BONE

Advance Pet Supply Co.
New York, N. Y.
Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)
Heger Products Co.
St. Paul, Minn.
Hinton & Co.
New York, N. Y.
Peerless Mfg. Co.
Detroit, Mich.
Petpak Products Co.
Milwaukee, Wis.
Royal Pet Products Co.
Philadelphia, Pa.

PETS AND SUPPLIES—Continued

Cuttle Bone—Continued

Spratt's Patent, Ltd.
Newark, N. J.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

DISINFECTANTS—KENNEL

Dr. L. D. LeGear Medicine Co.
St. Louis, Mo.
(See Adv. on Page 11)

DOG FOOD

Advance Pet Supply Co.
New York, N. Y.
Balorations, Inc.
(Div. Tioga Mills, Inc.)
Waverly, N. Y.
Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 287)
Champion Animal Food Co.
Minneapolis, Minn.
Chappel Bros., Inc.
Rockford, Ill.
Glover Co., Inc., H. Clay
New York, N. Y.
Good, Inc., James
Philadelphia, Pa.
Heger Products Co.
St. Paul, Minn.
Justrite Co.
Milwaukee, Wis.
Dr. L. D. LeGear Medicine Co. (Cod Liver Oil Tablets)
St. Louis, Mo.
(See Adv. on Page 11)
McCullough Seed Co., J. Chas.
Cincinnati, Ohio
(See Adv. on Page 3)
Meat Products Co.
Cleveland, Ohio
National Pet Shops
St. Louis, Mo.
Northwestern Yeast Co.
Chicago, Ill.
(See Adv. on Page 287)
Nowak Milling Co.
Hammond, Ind.
Old Trusty Dog Food Co.
Needham Heights, Mass.
Perfection Foods Co.
Battle Creek, Mich.
Petpak Products Co.
Milwaukee, Wis.
Philadelphia Seed Co.
Philadelphia, Pa.
(See Adv. on Page 82)
Ralston Purina Co.
St. Louis, Mo.
Rose & Co., G. P.
Nashville, Tenn.
Royal Pet Products Co.
Philadelphia, Pa.
Whyte Feed Mills
Pine Bluff, Arks.
Spratt's Patent, Ltd.
Newark, N. J.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

DOG SUPPLIES

Advance Pet Supply Co.
New York, N. Y.
Heger Products Co.
St. Paul, Minn.
National Pet Shops
St. Louis, Mo.
Progressive Accessories
New York, N. Y.
Reade Mfg. Co.
Jersey City, N. J.
Royal Pet Products Co.
Philadelphia, Pa.
Standard Screen Co.
Chicago, Ill.
Spratt's Patent, Ltd.
Newark, N. J.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

FEEDERS—BIRD

Advance Pet Supply Co.
New York, N. Y.
Batcheller Associates, Fred E.
Deland, Fla.
Bishop, Welles L.
Meriden, Conn.
Packard Winthrop
Canton, Mass.
Payne, Roderick
Brandt, Ohio
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

FISH FOODS

American Bird Products Co.
Chicago, Ill.
Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 287)
Bausman,
Philadelphia, Pa.
Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)
Grassyfork Fisheries, Inc.
Martinsville, Ind.
Heger Products Co.
St. Paul, Minn.
Hinton & Co.
New York, N. Y.
Justrite Co.
Milwaukee, Wis.
Lakeview Ponds
Mt. Airy, Cincinnati, Ohio
Magnesia Products Co.
Milwaukee, Wis.
National Pet Shops
St. Louis, Mo.
Pacific Goldfish Farms
Westminster, Calif.
Paramount Aquarium, Inc.
New York, N. Y.

PETS AND SUPPLIES—Continued

Fish Foods—Continued

Peerless Mfg. Co.
Detroit, Mich.
Petpak Products Co.
Milwaukee, Wis.
Royal Pet Products Co.
Philadelphia, Pa.
Spring Lake Fisheries
Waldron, Ind.

GOLD FISH

American Bird Products Co.
Chicago, Ill.
Auburndale Goldfish Co.
Chicago, Ill.
Battle Creek Dog Food Co.
Battle Creek, Mich.
(See Adv. on Page 287)
Bruce Goldfish Fisheries
Thornburg, Iowa
Crescent Fish Farm
New Orleans, La.
Dandy Trail Fisheries
Indianapolis, Ind.
Everglades Aquatic Nurseries, Inc.
Tampa, Fla.
Grassyfork Fisheries, Inc.
Martinsville, Ind.
Japanese Goldfish Hatchery Co.
North Branch, N. J.
Lakeview Ponds, The
Mt. Airy, Cincinnati, Ohio
Loveland Goldfish Farms
Loveland, Ohio
Mt. Parnell Fisheries
Mercersburg, Pa.
National Pet Shops
St. Louis, Mo.
Pacific Goldfish Farm
Westminster, Calif.
Paramount Aquarium, Inc.
New York, N. Y.
Pearcy Goldfish Co.
Martinsville, Ind.
Royal Pet Products Co.
Philadelphia, Pa.
Spring Lake Fisheries
Waldron, Ind.
Woodford Water Gardens
Van Nuys, Calif.

HOUSES—BIRD

Advance Pet Supply Co.
New York, N. Y.
Arcade Mfg. Co.
Freeport, Ill.
Batcheller Associates, Fred E.
Deland, Fla.
Bishop, Welles L.
Meriden, Conn.
Dodson, Inc., Jos. H.
Kankakee, Ill.
Homecraft Specialty Mfg. Co.
Mattoon, Ill.
National Pet Shops
St. Louis, Mo.
Packard, Winthrop
Canton, Mass.
Rieber Bird Homes
West Webster, N. Y.
Royal Pet Products Co.
Philadelphia, Pa.
Schaad & Son, E. J.
Merrill, Wis.
Universal Crushed Shell Co.
(Pearl Covered Wren Houses)
Muscatine, Iowa
(See Adv. on Page 303)
Western Stoneware Co.
Monmouth, Ill.
(See Adv. on Page 313)
Woodcraft Co., The
Dalton, N. Y.
Yoho & Hooker
Youngstown, Ohio
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

PETS

Advance Pet Supply Co.
New York, N. Y.
National Pet Shops
St. Louis, Mo.
So. Calif. Bird & Pet Exchange
Bell, Calif.
Summit Rabbitry
Kutztown, Pa.
Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

REMEDIES—BIRD

Advance Pet Supply Co.
New York, N. Y.
Antrol Laboratories
Los Angeles, Calif.
Cornell Center Homeo. Bird Remedy Co.
New York, N. Y.
Justrite Co.
Milwaukee, Wis.
National Pet Shops
St. Louis, Mo.
Petpak Products Co.
Milwaukee, Wis.
Royal Pet Products Co.
Philadephia, Pa.
Spratt's Patent, Ltd.
Newark, N. J.
Zenith Novelty Co.
New York, N. Y.
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REMEDIES—DOG

Advance Pet Supply Co.
New York, N. Y.
Antrol Laboratories
Los Angeles, Calif.
Bonide Chem. Co., Inc.
Utica, N. Y.
(See Adv. on Page 275)
Clifton Chem. Co., Inc.
New York, N. Y.
Gabriel's Laboratories
Tell City, Ind.
Goodluck Products Co.,
Denver, Colo.

PETS AND SUPPLIES—Concluded

Remedies—Dog—Continued

Justrite Co.
Milwaukee, Wis.

Kennel Gardens, Inc.
Elkridge, Md.

Le Gear Medicine Co., Dr. L. D.
St. Louis, Mo.
(See Adv. on Page 11)

National Pet Shops
St. Louis, Mo.

Petpak Products Co.
Milwaukee, Wis.

Polk-Miller Products Corp.
Richmond, Va.

Q-W Laboratories, Inc.
Bound Brook, N. J.

Royal Pet Products Co.
Philadelphia, Pa.

Spratt's Patent, Ltd.
Newark, N. J.

Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

REMEDIES—FISH

Advance Pet Supply Co.
New York, N. Y.

Burnett's, Inc.
Newark, N. J.
(See Adv. on Page 293)

Grassyfork Fisheries, Inc.
Martinsville, Ind.

Heger Products Co.
St. Paul, Minn.

Justrite Co.
Milwaukee, Wis.

Royal Pet Products Co.
Philadelphia, Pa.

Zenith Novelty Co.
New York, N. Y.
(See Adv. on Page 289)

REPELLENTS—DOG

(See Page 282)

TROPICAL FISH

Gray, Roger P.
Ojus, Fla.

Paramount Aquarium, Inc.
New York, N. Y.



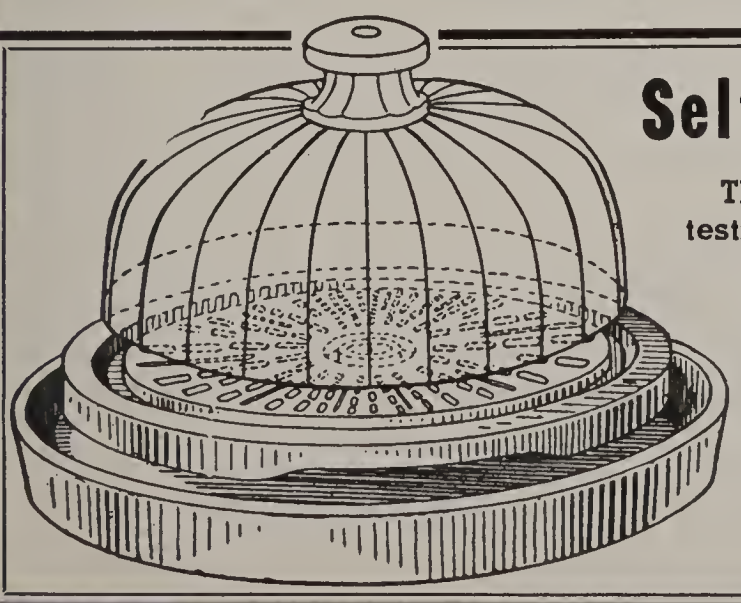
BURNETT'S BIRD AND FISH FOODS

Will Give You **Extra Profits**

The Seed Trade's Favorite Line
Since 1897

Write for Catalog and Price List

BURNETT'S INC., 217 Plane St., Newark, N. J., Dept. S-B



Self Watering Germinator

This Self-Watering Germinator may be used for testing field, vegetable, flower and tree seeds.

It is a daylight germinator consisting of an attractive flat dish in which is placed a porous disc, and over the disc fits a clear glass bell.

$3.85

Seed Trade Reporting Bureau
223 W. Jackson Blvd.
CHICAGO, ILL.

Advertisers Index—Page 335

Baby Chicks, Poultry Remedies, Feeds and Equipment

IN MANY poultry raising communities, retail seed dealers have developed a large volume of trade in poultry supplies. The most successful of these have made a point to handle everything to meet the poultry raiser's needs. They maintain very complete poultry supply departments so that customers will not have to go elsewhere for any items in this line that they may desire. That is good merchandising strategy and especially effective with the poultry trade as poultry raisers are generally a bit "clannish" at least to the extent of preferring to make all of their purchases in one place. A **complete** poultry supply department is therefore quite essential to volume sales.

BABY CHICKS:

Here is an opportunity for window displays that attract wide attention. The scientific methods for handling chicks that are in common practice today, have reduced mortality to a minimum and there is now little, if any, loss. Seed dealers sell millions of chicks during the spring and early summer. Not only do they find chicks profitable in the actual sales made but of great value in attracting trade to the store with resultant sales of many other items. The most important problem of the dealer selling chicks is to be certain of a reliable and dependable source of supply. Wise dealers purchase chicks with a known background —healthy parent stock of good egg production record.

POULTRY REMEDIES:

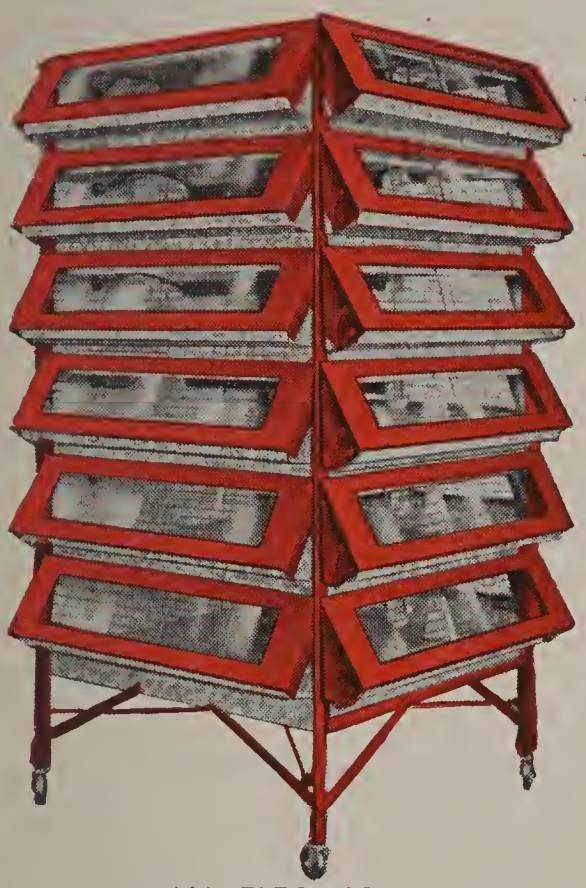
The poultry raiser has a different problem on the treatment of disease than the cattle, hog or horse breeder. In the latter instance, as a general rule, much more value in dollars is involved and the expense of a veterinarian warranted, although there are many stock raisers who use proprietary stock medicines. The poultry farmer, however, is by far the most extensive user of proprietary medicines and his need for reliable remedies has led to a highly developed authoritative plane of remedy manufacturing for the treatment and prevention of poultry diseases. Dealers should stock remedies and urge their use to prevent disease. However, great care should be exercised in selecting remedy lines from manufacturers of known reputation and successful record. Avoid "fly-by-night" propositions that crop up from time to time with claims unwarranted and wholly lacking foundation in facts.

FEEDS:

While the dealer's margin on poultry feeds is low, nevertheless the "quick turn over" feature of this business plus volume sales, makes it profitable. It must be

Directory Section Index—Pages 2-4-6-8-10

SOL-HOT GLASS DISPLAY BROODER



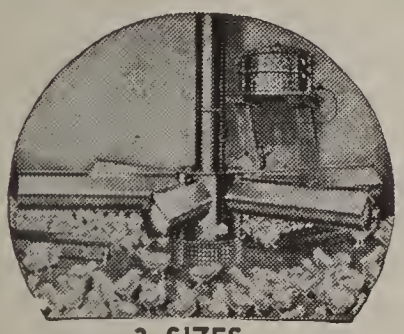
ALL ELECTRIC

6 DECK ONLY 1000 chick capacity **$64.90** Dealer Price

5 DECK ONLY 675 chick capacity **$57.80** Dealer Price

This silent salesman brings customers in right off the street. Many dealers sell the capacity of one or two of these attractive brooders from two to three times a week during the baby chick season. If you make only 2c per chick, you can easily make back your original investment the first month. Hundreds of these money making brooders are in use by progressive seed dealers. Let us send you specifications and full particulars. Furnished in 2 colors.

The New Revolutionary SOL-HOT RAYDIANT



3 SIZES
$16.50 $19.60
$22.80

Here is the finest, most economical and most advanced scientific brooder ever built. It has been proved by several years' successful operation on the farms of thousands of poultry raisers. The SOL-HOT RAYDIANT has 12 exclusive money making and labor saving advantages over old style brooders. The RAYDIANT is patented and is manufactured and sold by the H. M. Sheer Co. only. Write us today for prices and attractive dealer discounts.

The New SOL-HOT White Finish Line Supplies

Here is new line of Waterers and Feeders that is going over with poultry raisers in a big way. Every item finished in WHITE. Poultry raisers say that it is the most sanitary and easiest to keep clean line of poultry equipment on the market. 10 different items in the line. Write today for full details and our liberal discounts.



• FREE Catalog

It gives special discounts for seed dealers. Contains World's Largest Line of brooders and hundreds of items for the poultry raiser. Shows, describes and gives prices on Waterers—Feeders—Floor Brooders—Battery Brooders—Broiler Plants—Ventilation Systems—Insulation plans—many other profit making items that you can sell. Write for your copy today.

H. M. SHEER CO.

Dept. SW-1
Quincy, Ill.

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remembered too that poultry feed is the largest item of regular day in and day out expense in poultry raising. Therefore, to handle feed, you assure steady patronage of your poultry department that no doubt leads to other sales.

Whether you manufacture your own brand of poultry feeds or handle feeds put out by a feed manufacturer, quality in the mixtures should be your first consideration. This is of utmost importance, particularly as regards baby chick feeds. The delicate digestive organs of the baby chick do not react favorably to low grade feed and results are disastrous.

EQUIPMENT:

Modern poultry equipment has contributed much to the progress and development of the poultry industry. New items of equipment are being brought out almost continuously — numerous improvements in old items are being made. The dealer must keep in touch with these constantly changing conditions to give the trade the best in equipment lines.

American inventive genius is responsible for great betterment in chick brooding methods. There are many types of chick brooders on the market to meet the requirements of varied conditions. There are coal, gas, oil and wood burning brooders in addition to different makes of electric brooders. Some are particularly outstanding in practical, reliable and highly efficient features.

Galvanized ironware equipment has been a great aid in solving the sanitation problem in poultry houses. Drinking fountains, feed hoppers, nests, etc., are provided in this material.



USE-SELL-DISPLAY

LIV-AN-GRO BROODERS

USE FOR DISPLAY AND STORAGE OF CHICKS

Put Liv-An-Gro into action...they'll sell chicks for you. Most economical, safe, and efficient chick Brooder on market. Used as starting brooders by the thousands. Display rack FREE with initial 4-dozen order.

Sell Liv-An-Gro Brooders . . . Make Extra Profits
Many dealers sell hundreds of Liv-An-Gro Brooders yearly. Our Free advertising a big help.

Lowest Price Starting Brooder on Market
Write today for prices and details. 95% of chicks live. Get FREE FOLDER.

Investigate the Blue Ribbon Line of Poultry Equipment and Super-Heat Oil Brooder Stoves. They sell on sight and are big profit-makers. Write Dept. 50 for catalog.



RAISE 95%

ANDERSON BOX COMPANY, Indianapolis, Ind.

SEED WORLD and THE BUYERS GUIDE are read by the leading seedsmen in the United States and thirty-three foreign countries. This is proof of the great service these two publications render the industry.

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SUNSHINE HATCHERIES

BIG FLUFFY CHICKS...

That live and Grow

We operate three large plants that hatch 200,000 chicks per week in season. All chicks are from bloodtested stock.

For 24 years we have been supplying chicks to dealers all over the U. S. and they say Sunshine chicks are some of the finest they ever handled.

We hatch all leading varieties. A request will bring you prices and complete information.

SUNSHINE HATCHERIES
CORYDON INDIANA

Kill 'Em



WITH PURE, HONEST ANTHRACENE OIL

CARBOLINEUM

ONE PROPER APPLICATION OF
C-A WOOD PRESERVER
(Carbolineum America)

Will free a Poultry House of Mites and Fowl Ticks ("Blue Bugs") from 1 TO 3 YEARS

It is the only Carbolineum guaranteed by affidavit to be like that Carbolineum recommended in U. S. Farm Bulletins 801 and 1070 and the anthracene oil recommended in Bulletin 1652.

It can be mixed with used crank case oil, fuel oil, or kerosene. It will stop the rot of wood. It will kill termites. It is a long lasting outside brown stain.

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6626 Delmar Blvd. St. Louis, Mo.
52nd Year and Pioneers in Carbolineum Business in U. S.

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World's largest hatcheries. Complete service from preparing copy for your catalog to handling your orders. Have one seed client using over $100,000.00 worth of chicks annually. If you issue over 100,000 catalogs each spring it will pay you to write us for full details.

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PLEASANT HILL, MO.

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DUCKLINGS
TURKEY POULTS
and
BABY CHICKS

Write for catalogue and prices

The Ridgway Duck Hatchery
LARUE, OHIO

Phone 43 Telegraph—Western Union

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Pratt Food Co.
Philadelphia, Pa.

Russell Co., I. D.
Kansas City, Mo.

Salsbury's Laboratories, Dr.
Charles City, Iowa

Standard Chem. Mfg. Co.
Omaha, Nebr.

Tobacco By-Products & Chemical Corp.
"Black Leaf 40"
Louisville, Ky.
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"Black Leaf 40"

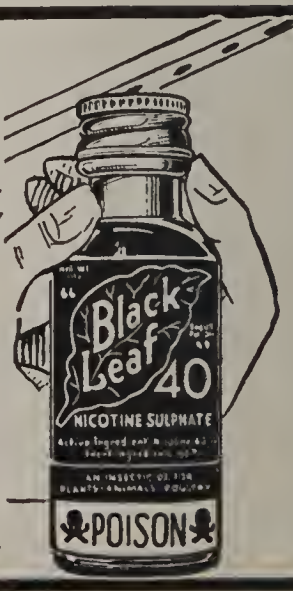
"CAP-BRUSH" Roost Applicator Cuts Delousing Cost By 3/4

"Black Leaf 40" with the "Cap-Brush" Roost Applicator goes four times as far. No bristles absorb or waste the liquid, consequently "Black Leaf 40" delouses four times as many birds.

KILLS LICE AND FEATHER MITES

Use full-strength "Black Leaf 40" but less of it. There is plenty of reserve strength to kill adult lice and feather mites and young lice as they hatch.

For individual bird treatment a drop applied with the "Cap-Brush" in the feathers two inches below the vent kills body lice. A drop on the back of the bird's neck kills head lice. The extra savings means more satisfied customers for you.



TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION
INCORPORATED
LOUISVILLE, KY.

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Racine, Wis.

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NATIONAL

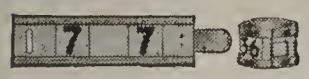
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Your Customers will like them.
For all purposes—Garden and Stake Labels.
Metal — Wood — Celluloid — Wired Labels.
For Nurserymen — Growers — Florists.
Low Prices—Complete Selection — Over 20 varieties.



POULTRY LEG WING BANDS





You need "National" Leg and Wing Bands.

For all Branches of Fowl Identification.



Leg and Wing bands for Turkeys, Poultry, Pigeons, Baby Chicks.

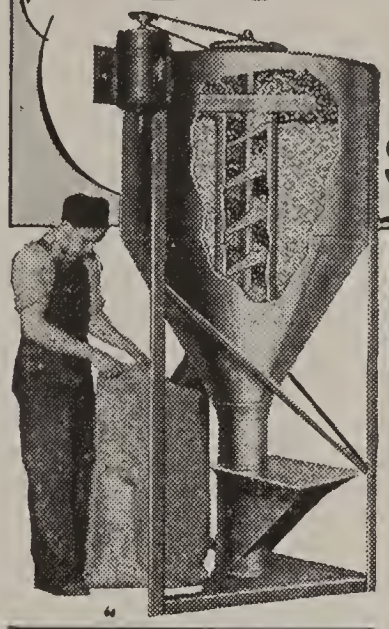
Lowest Dealer prices — Largest selection—Over 50 varieties.

DEALERS: Write for Catalog and Dealers Price List.



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Dept. 392
NEWPORT KENTUCKY

BROWER'S *New* 500 lb. SEED MIXER



NOW ONLY $95

EASY PAYMENTS

MAKE YOUR OWN SEED MIXTURES!

Works on vertical whirl-wind principle. Loads at bottom and carries seeds to be mixed to the top, whirling them into an evenly blended mixture. Requires only two minutes for each bag of seed and won't crack or waste grain. Every ingredient, however small an amount, is thoroughly blended. This rugged, low priced mixer quickly pays for itself. Built to give long service.

Also BROWER'S GIANT WHIRL-WIND mixers in 1000 and 2000 lb. sizes. Write for details and special introductory offer.

BROWER MANUFACTURING CO.
Box 52C Quincy, Ill.

COMBINATION FERTILIZER AND SEED SOWER



Broadcasts Granular or Pellet (Aero Cyanamid) **Fertilizer or Seed**
—a good Seller—
Built strong
Well liked
Inexpensive
Write for Circular and Price

THE CYCLONE SEEDER CO.
Dept. 63 URBANA, INDIANA



CYCLONE STAND-BILT JAR FOUNT

The Sturdy Wire Legs are rigidly folded into the rim of the drinking pan and are a part of the fount. Popular priced.

This is only one of the many Modernized Poultry Supply items shown in our new 1938 catalogue.

It's Free — Write for your copy today.

THE CYCLONE MFG. CO.
Dept. 63 URBANA, INDIANA

Genuine
PEARL SHELLS & CHIPS
Highly Polished and colored for Goldfish Bowls and Aquariums, for Growing Narcissus Bulbs and for Decorative Purposes.

Universal
PLANT FOOD
An effective plant food that will produce good sales for you. Write for special discount and samples.

Quality
BIRD FOOD & BIRD GRIT

also
PEARL COVERED WREN HOUSES
Size 5" x 6" covered with genuine green pearl chips. Has a brass chain for hanging. Packed in individual cartons, 36 to a case.

UNIVERSAL CRUSHED SHELL COMPANY
MUSCATINE PO. Box 815 IOWA

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Lyon Electric Co.
San Diego, Calif.
National Ideal Co.
Toledo, Ohio



Does Not Affect PRODUCTION

Effective *Safe*

Contains SHOCKLESS NICOTINE KILLS ROUNDWORM

"Black Leaf" Worm Powder kills roundworms without interrupting production. Just feed once in mash. No handling of birds; easy to use; saves money. Powder passes to intestines where nicotine is freed to kill roundworms where they live and grow.
"Black Leaf" Worm Pellets are made from the Powder and are just as effective for individual dosing.
Write for leaflets and sales aids.

TOBACCO BY-PRODUCTS AND CHEMICAL CORP.
INCORPORATED LOUISVILLE, KY.

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St. Louis, Mo.
Security Calf Food Co.
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Wilson & Co.
Chicago, Ill.

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Pratt Food Co.
Philadelphia, Pa.
Security Calf Food Co.
Minneapolis, Minn.
Smith Agri. Chem. Co.
Columbus, Ohio
Standard Chemical Mfg. Co.
Omaha, Neb.

Horticultural Books

IT IS SURPRISING to note the great interest being manifested in horticultural books today. They are fast becoming one of the retail seed store's most popular lines. This is undoubtedly due to the fact that the interest in home gardening is increasing with leaps and bounds. A few years ago the vegetable garden was much more popular than the flower garden, but today the reverse appears to be the case, and there is an enormous interest in the beautification of home surroundings.

Here are a few suggestions that should be given serious consideration by dealers handling horticultural books:—

Do not lose sight of the fact that the average home owner is an amateur when it comes to his garden. He knows very little about what to plant and when to plant it. If you really want to help him, you can do nothing better than recommend that he purchase and read some of the interesting and instructive books now available which will give him just exactly the information he wants and needs, but be sure you have these books to sell to these customers.

* * *

When you sell a packet of flower or vegetable seeds, you are dealing with a "live" prospect for a garden book. Show him the books you have in stock and it's almost a "sure bet" that he will walk out with a book under his arm.

* * *

Set aside a small space in your store, if this is at all possible, where your customers can sit down and look over your books and actually get a comprehensive idea of what is in the books. If you have a complete reference library of popular books for the amateur as well as the experienced gardener, you have something of vital interest to all of your garden customers, and especially so if you make this library available to them. When a customer comes in and casually gets to looking over your garden library, he will be almost sure to find at least one book which holds his interest and which he buys before he leaves your store.

* * *

Display books at all seasons of the year and have them where they are easily accessible to your customers.

* * *

A window display devoted entirely to books in the spring of the year will create an enormous interest. It is very easy to make an effective display of books that will attract the passerby and draw him inside the store to buy.

* * *

It is unnecessary to carry a large stock of books. A few copies of the most popular sellers can be carried in stock. If a book is wanted and you do not have it in stock, it will take only a day or two for you to order it from the publisher and have it on hand.

* * *

In addition to carrying a stock of books, you should have the publish-

Gardeners buy more when they know more

BOOKS

provide tested advice, shorten the discouraging trial-and-error period that every new gardener must undergo. Books turn garden duffers into confident, active buyers of seeds and stock. Books keep consumer-demand alive by a flow of new, intriguing ideas that make for more and larger seed sales.

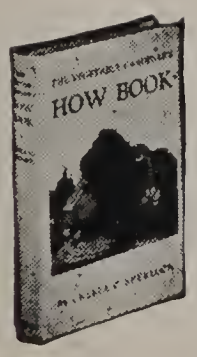
MACMILLAN

gives you every help in stimulating this great market. You get free circulars and booklets, free electros for catalog illustrations, and beautiful colored posters for display in your retail store.

All You Need Do:

Describe Macmillan garden books in your catalog; or mail booklets with your statements, advertising, and merchandise. Send us the orders, and you will have earned a profit on the sale and gained a permanent customer.

INCLUDE A SELECTION OF MACMILLAN BOOKS IN YOUR NEXT CATALOG



Write to our

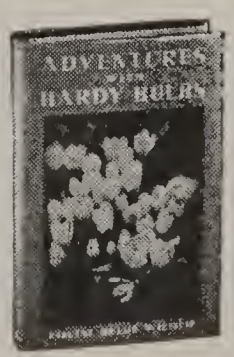
OUTDOOR BOOK SERVICE

for information on the generous promotional discount, and let us know what promotional materials you wish to use.

●

THE MACMILLAN COMPANY

60 Fifth Avenue, New York, N. Y.



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GARDEN BOOKS mean PROFITS for YOU!

Write to DOUBLEDAY, DORAN OUTDOOR BOOKS

YOU, as a retail seedsman, can make garden books one of the most important allied lines of your business. We are prepared to help by sending suggested copy for catalogue offers —cuts to go with these offers— imprinted circulars without charge —posters and other dealer helps. You do not have to stock these books. Just send us the orders you receive and we will mail the books direct, using your addressed label; and then we bill you less the special discounts.

You can sell, profitably and without risk, the 19 popular "Doubleday Dollar Garden Books" and other titles in steady demand. Write us today for latest Garden Book Catalog and discount schedule for orders on garden books.

●

DOUBLEDAY, DORAN OUTDOOR BOOKS

Garden City, N. Y.

er's catalog describing the various horticultural books for handy reference. You can show your customer the catalog and he can make a selection of the book he wants. Then you can either order the book from the publisher, or else you can have the publisher send it direct to the customer.

* * *

Books require a minimum amount of effort to sell and will afford you a very fair margin of profit.

* * *

You can build a reputation for your store of being headquarters for the purchase of books on any phase, type, or description of garden or related subjects.

* * *

If you are not now handling books, get in touch with the publishers of garden books and ask them for their dealer propositions!

Leading Seed Merchants in thirty-four foreign countries read SEED WORLD on a regular paid subscription basis. They are interested in what you have to sell. Tell them through the advertising columns of

SEED WORLD

223 W. Jackson Blvd.
CHICAGO

A PROFITABLE SIDE LINE

for Every Retail Seedsman

★

DE LA MARE
GARDEN BOOKS

Dependable . . . Written by Experts . . . Fine Printing and Binding . . . In Popular Demand from Coast to Coast.

★

It Will Pay You

TO SELL THESE BOOKS OVER THE COUNTER
TO LIST THEM IN YOUR CATALOG

Our line of books covers every subject your customers are likely to be interested in . . . Annuals, Perennials, Bulbs, Trees, Shrubs, Vines, Plant Propagation, Landscape Gardening, Rock Gardens, Roof Gardens, House Plants, Flower Arrangement . . . even to such allied subjects as Gold and Tropical Fish, Birds, etc.

Write us what space you can devote in your catalog to an offering of these books and we will be glad to supply you with suggested copy and cuts.

A. T. DE LA MARE CO., Inc.
448 West 37th St., New York, N. Y.

Please advise us what discount you allow dealers on De La Mare Garden Books.

☐ I am interested in Selling them Over the Counter.
☐ I am interested in Listing them in My Catalog.

Name .....

Address .....

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Bee Supplies

AN EXCELLENT auxiliary line to the seed business, one which helps the seed dealer round out his year's profits, is bee supplies. It is a fascinating line, but there are many things which the dealer who installs or contemplates installing this line should learn if he is to make a success of the venture.

Here are a few helpful pointers for the dealer handling bee supplies:

Do not install the line until you have made a thorough study of the bees themselves. There are many good books published on the subject and in addition to this the U. S. Department of Agriculture, at Washington, D. C., and the various state agricultural colleges have bulletins that may be obtained for the asking.

* * *

Buy a few beehives for yourself, in order to acquaint yourself with the bees and equip yourself with the proper knowledge to enable you to talk the "bee language" intelligently to your customers. This will give you an intimate knowledge of local conditions, which cannot be learned out of books. Bee-keepers like to sit around and gossip about their bees and local conditions.

* * *

To start with, stock only one good, complete line of bee supplies manufactured by a reliable firm. As you gradually become better acquainted with the line, the items of other manufacturers can be added, according to the need or the demand in your community.

Bee supplies should be kept in a clean place. Never allow dust to accumulate around them. A dirty bee supply department is sure to drive customers away.

* * *

Window displays are undoubtedly the most effective means of attracting attention to this line. A glass beehive with the bees at work never fails to draw a crowd. Using this as a magnet, display bee supplies all around it. In this way you will put over the idea that you carry a complete line of bee supplies.

* * *

Know all the bee raisers in your community by name and when the time comes that there is a demand for this type of merchandise, drop them a line or call them up and remind them that you are fully equipped to supply them with all their needs.

* * *

Have in your store books and pamphlets on bee culture and this phase of natural science from which the bee enthusiast can gain any information he may desire.

* * *

Keep in touch with the manufacturer whose supplies you stock and in this way you will be informed of any new items of merchandise which he is introducing and which you should carry in order to swell your profits and help your customers make a success of this line of activity.

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Extra Profit in Bee Supplies

When you stock bee hives, hive equipment, bee comb foundation and materials the beekeeper uses, you serve a class of people whose interest is also commonly in garden supplies, seeds, poultry equipment, lawn and household goods. With Dadant's Bee-comb Foundation and Lewis Beeware you stock the line of goods that suits many thousands of the country's best buyers. Not only that but the catalogues that go out each year in your territory insure you contact that will bring these folks right to your store.

Write to get discounts and conditions of dealer representation.

DADANT & SONS

Hamilton, Illinois

Makers of Dadant's Famous Beecomb Foundations—Wired—Plain—Surplus
Distributors of Lewis Beeware, Standard of the Beekeeping World.



WILTON IDEAL LABEL

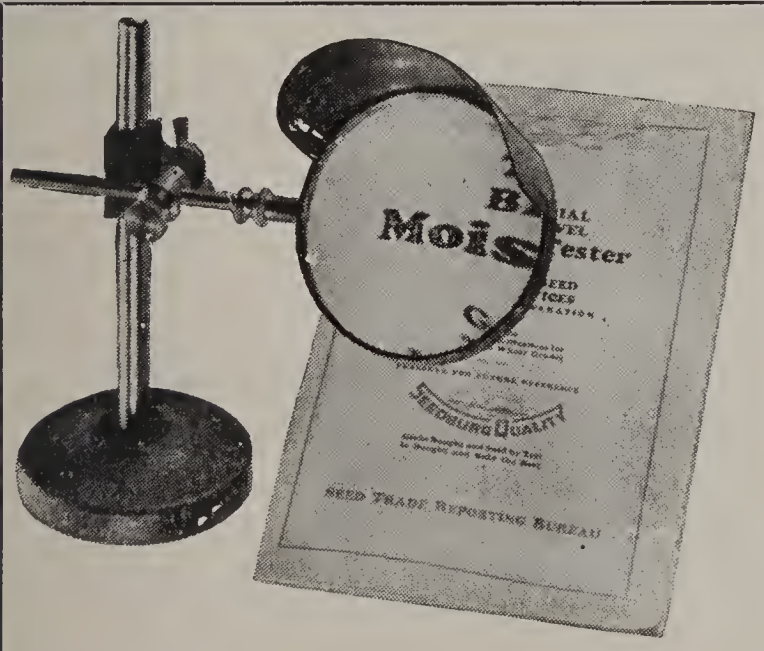
Dealers Write for Samples and Prices

GARDEN LABEL CO.
OF WILTON, CONN.



GARDEN MARKERS
GREEN PYRALIN FLAG
DURALUMIN STAKE
MARK with LEAD PENCIL
ARE WEATHERPROOF
DURABLE and NEAT

STANDARD SIZE IS
FLAG 2x1, "STAKE 6"
OTHER SIZES MADE



MAGNIFYING GLASSES

This magnifying glass, **with Adjustable Stand and Eyeshade,** will be found very practical for examining grain and seed samples.

Has heavy metal base; the magnifying attachment is nickel-plated.

Lens diameter 3¼ inches; focus 8 inches.

Shipping weight, 4 pounds.

PRICE $7.50

No. 45—The Desk Glass is of solid brass, the focus adjustment being made by screw threads. Magnifying power 7.5X. Diameter of lens, 1 inch.

No. 44—The Pocket Glass is enclosed in a hard rubber case. The case protects the lens from scratching and could be dropped on stone floor without breaking. Diameter of lens, 1½ inches. Magnifying power 4X.

	Each	½ Doz.
No. 45—Desk Size	$1.50	$8.00
No. 44—Pocket Size	1.50	8.00



No. 45 Desk Size



No. 44 Pocket Size

SEED TRADE REPORTING BUREAU
223 W. Jackson Blvd. Chicago, Ill.

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Marshfield, Wis.
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Medina, Ohio

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Zanesville, Ohio
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Paducah Pottery Co.
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Pittsburg Pottery Co.
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Cherry-Burrell Corp.
New York, N. Y.
Creamery Package Mfg. Co.
New York, N. Y.
Duggar Mfg. Co., L. G.
Hope Hull, Ala.
Pilling & Son Co., G. P.
Philadelphia, Pa.

WEEDS

CAUSE MORE CROP LOSSES THAN INSECTS OR FUNGI



AEROIL weed burner kills weed, seeds and roots!

Use the Aeroil No. 99 for . . . sterilizing soil, renovating lawns, burning tree stumps, destroying insect pests and 99 other uses.

UNUSUAL SALES OPPORTUNITY

Large discount makes it profitable to sell the AEROIL No. 99 WEED BURNER — low price makes it easy to sell to seedmen, gardeners, farmers, fruit and vegetable growers, florists, country clubs and estates, cemeteries, parks, etc. Sold on 10 DAYS' FREE TRIAL and a one year guarantee. Write for Bulletin 183ST and attractive dealer proposition.

AEROIL BURNER CO., INC.

West New York, New Jersey

2021 So. Mich. Ave. CHICAGO 469 Bryant St. SAN FRANCISCO 3408 Main St. DALLAS

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All kinds of Bulb Bowls, Vases, Jardinieres, Novelty Pots, Flower Pots, Hanging Pots, Bird Baths, Oil & Lawn Jars, etc. All high quality products.

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MONMOUTH, ILLINOIS

"The most searching analysis ever made by any publisher on behalf of the horticultural industry"

This is the opinion expressed by MR. H. G. HASTINGS, Chairman of the Mail Order Group of the A. S. T. A. in referring to an advertising digest entitled

"Cultivating Customers in a Fertile Market"

If interested in broadening your market through national advertising please ask for this booklet on your business stationery. It's free.



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250 Park Avenue, New York

WOMAN'S HOME COMPANION

THE COUNTRY HOME MAGAZINE

COLLIER'S, THE NATIONAL WEEKLY

THE AMERICAN MAGAZINE

More than 9,400,000 circulation

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New Art Flower Co. (Wax & Cloth)
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Columbus, Ohio

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Wilmington, Del.
General Chemical Co.
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North Manchester, Ind.
Root Co. of Iowa, A. I.
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Expan Co.
Redlands, Cal.
Fraim Co., Joseph A. (Surgery Tools)
Norfolk, Va.

AUSTRALIAN GROWN

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Direct import and "spot" in season.

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Direct import and "spot" service at New York, Gulf and Pacific Coast ports. Best East and West Coast grades, bale lots to carloads.

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JAPANESE—Natural and Dyed Green—12 sizes.
CHINESE TONKIN CANES—Natural, heavy and light — 10 sizes.
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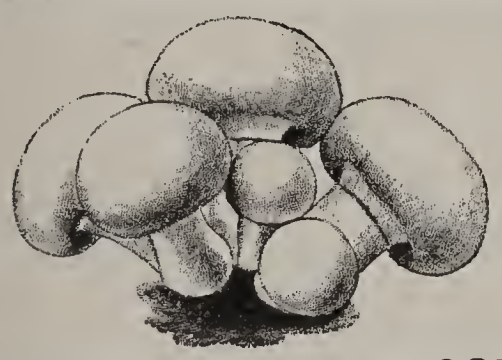
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TULIPS	DAFFODILS	CALADIUMS
BEGONIAS	GLOXINIAS	AMARYLLIS

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TOBACCO STEM PROCESS

U. S. Patent No. 1,939,600

MUSHROOM SPAWN

Now Available to Seed House Trade

Used widely by the commercial mushroom grower.

Spawn is produced by most modern scientific pure culture methods.

Vigorous, quick starting, certain. Great improvement over old type brick and manure spawn.

Most ideal spawn for Seed House Trade. Comes dried and crumbled. Fine keeping qualities. Supplied in bulk to be sold by the ounce, same as other seeds, or supplied in one-half pound cans complete with instructions.

Write for complete information. Samples and Manual of Mushroom Culture supplied to established Seed Houses.

CHESTER COUNTY MUSHROOM LABORATORIES

WEST CHESTER, PENNA.

RAFFIA

NATURAL

Westcoast — Eastcoast

COLORED

Cellophane Wrapped
30 Colors

GRASS MATS

3′ x 6′ — All Colors

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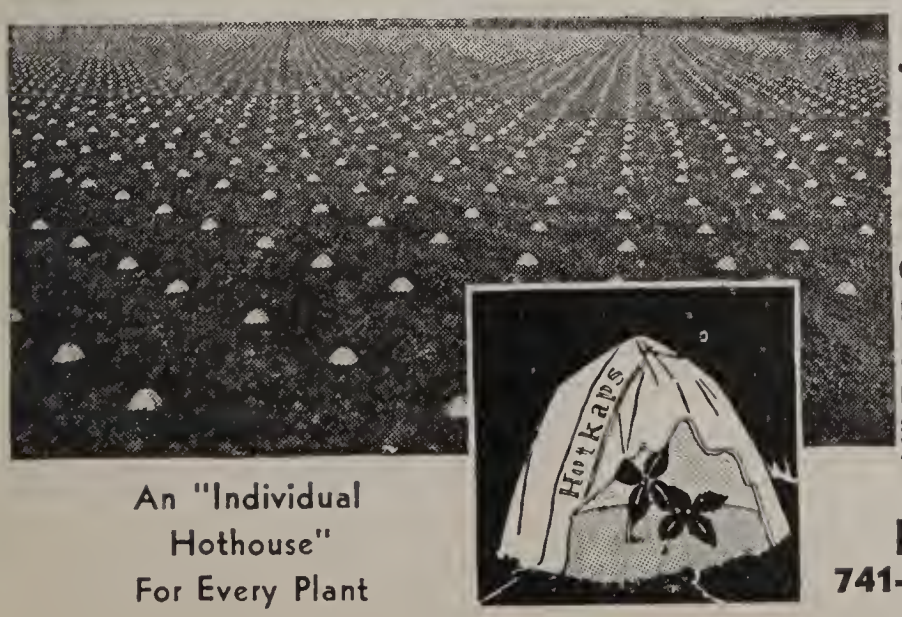
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JULIUS LOEWITH, Inc.

IMPORTERS - DYERS - MFRS.

120 East 16 Street New York

Established 1909



An "Individual Hothouse" For Every Plant

Germāco Hotkaps

Get Crops to Market Three Weeks Earlier

Making an additional profit on your sales to market gardeners. **HOTKAPS** have been tested. Sold by leading Seedsmen. Write us for complete dealer's information and our special Booklet entitled "Three Weeks Earlier to Market."

GERMAIN'S HOTKAP MFG. DIVISION

741-747 Terminal St. Los Angeles, Cal.

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MISCELLANEOUS SIDE LINES—Concluded

Tree Protectors—Continued

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Owens Co., J. L.
Minneapolis, Minn.

Reade Mfg. Co. (Tree Wound Paint)
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Tanglefoot Co., The
Grand Rapids, Mich.

TWINE—BINDER AND WRAPPING

Fricke Co., J. E.
Philadelphia, Pa.

TWINE—SEWING AND TYING

Bemis Bro. Bag Co.
St. Louis, Mo.
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Chase Bag Co.
Cleveland, Ohio

Fricke Co., J. E.
Philadelphia, Pa.

TYING MACHINES

Bunn Co., B. H. (Package Tying Machines)
Chicago, Ill.

Felins Tying Machine Co.
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Tie Company, The
Unadilla, N. Y.

WAX—VEGETABLE

National Wax Co.
Chicago, Ill.
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Ernst & Ernst
New York, N. Y.

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Benton Review Shop
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Century Photos, Inc. (Photos)
Chicago, Ill.

DeLaMare Co., Inc., A. T.
New York, N. Y.
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Dubois Press
Rochester, N. Y.

Horticultural Press
Chicago, Ill.

Industrial Adv. Co.
New York, N. Y.

McFarland Publicity Service
Harrisburg, Pa.

Morse Co., A. B.
St. Joseph, Mich.

Pitts Studios, Inc. (Cuts and Photos)
Rochester, N. Y.

Rochester Horticultural Studios
Rochester, N. Y.

Schmidt Litho. Co.
San Francisco, Cal.
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Stecher-Traung Litho. Co.
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Wallace-Homestead Co.
Des Moines, Iowa

APRONS

Windermere Products Mfg. Co. (Rubber)
Mentor, Ohio

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Cupples-Hesse Envelope Co.
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BAGS—COTTON OR BURLAP

Ames Bag Machine Co.
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Bemis Bro. Bag Co.
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Bosworth Co., M. M.
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Chase Bag Co.
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Cincinnati Bag Co.
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Fulton Bag & Cotton Mills
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Noon Bag Co.
Portland, Ore.

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BAGS—PAPER

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Bemis Bro. Bag Co.
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Brown Bag Filling Machine Co.
Fitchburg, Mass.

Chase Bag Co.
Cleveland, Ohio

Disbrow Mfg. Co. (Satchel Bottom Bags and Packets)
Newark, N. J.
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Fulton Bag & Cotton Mills
Atlanta, Ga.
(See Adv. on Page 319)

Grinnell Litho. Co.
New York, N. Y.

PRESERVE ***plants & vegetables with*** **WAX**

The most efficient economical form of preservation

NATIONAL WAX CO.

WAX in its various forms is an important item in the preservation of plants and vegetables. Wax in solution can be applied by brush. Soon after the application evaporation releases the water content, leaving a firm coating, impervious to air.

The Chemistry Department of the NATIONAL WAX CO. is prepared to solve all questions as to the wax to be used in any industry, whether horticultural or agricultural.

An excellent item for Store and Catalog Sales!

WE URGE YOU TO STOCK THIS ITEM IN YOUR STORE AND LIST IT IN YOUR CATALOG AS IT IS GAINING UNIVERSAL DEMAND

NATIONAL WAX COMPANY

946 W. CHICAGO AVE. CHICAGO, ILLINOIS

An Audited Survey of Seed World Subscribers

Shows their annual sales of merchandise, other than seeds, amount to more than $134,000,000. Seed World reaches the Retailer, Wholesaler, Jobber and Mail Order Dealer in the Hardware, Drug, Florist, Nursery and Other Trades Handling Seeds and Allied Agricultural and Horticultural Lines.

Ask for further details.

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223 W. Jackson Blvd.
CHICAGO

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Nationally Advertised
Internationally Used

For

Market Gardeners
Florists — Nurserymen
Commission Brokers

Felins Bunch Tyer

Bunch Vegetable and Celery Washer

Felins Electric Root Crop Washer

Write Dept. S

FELINS TYING MACHINE CO.
2950 N. 14th St.
MILWAUKEE, WIS.

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Bags—Paper—Continued

International Paper Co.
New York, N. Y.
Miller, Tompkins & Co.
East Rutherford, N. J.
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Wolf Brothers
Philadelphia, Pa.

BAGS—SEAMLESS "A"

Bemis Bro. Bag Co.
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Chase Bag Co.
Cleveland, Ohio
Fulton Bag & Cotton Mills
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McCullough Seed Co., J. Chas.
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Bates Valve Bag Corp. (Wire Tie)
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Savage Co., W. J.
Knoxville, Tenn.

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Brown Bag Filling Machine Co.
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Ferguson Co., J. L.
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Richardson Scale Co.
Clifton, N. J.
Sidney Grain Machinery Co.
Sidney, Ohio
Stokes & Smith Co., The
Philadelphia, Pa.

BAG HOLDERS

Howes Co., Inc., S.
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Richardson Scale Co.
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Sprout, Waldron & Co.
Muncy, Pa.

BAG PILERS—CONVEYORS

Revolvator Co.
North Bergen, N. J.

BAG STITCHING MACHINES

Brown Bag Filling Machine Co.
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Howes Co., S.
Silver Creek, N. Y.
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Savage Co., W. J.
Knoxville, Tenn.
Union Special Machine Co.
Chicago, Ill.

BASKETS

Franklin Equipment Co. (Steel)
Monticello, Iowa
Michigan Wire Goods Co. (Potato)
Niles, Mich.
Planters Mfg. Co., Inc. (Field Tomato)
Portsmouth, Va.
Worcester Wire Novelty Co., Inc.
Baltimore, Md.

PICKERS—BEAN

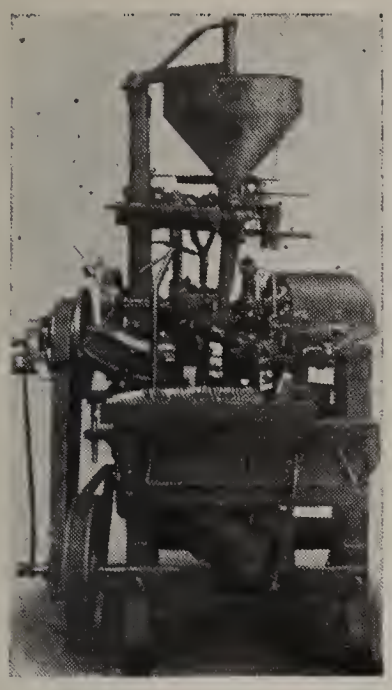
Crippen Mfg. Co.
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Ferrell & Co., A. T.
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Howes Co., Inc., S.
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Pioneer Thresher Co.
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Sutton, Steele & Steele, Inc.
Dallas, Texas
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BELTING

Goodrich Rubber Co., B. F.
Diamond Mechanical Goods Div.
Akron, Ohio
Hettrick Mfg. Co.
Toledo, Ohio



for

ECONOMICAL

PACKETING

of

SEEDS

Let us explain the advantages of the Hoeller Envelope Filling and Closing Machines.
Quickly adjustable for envelope sizes and filling quantities.
Capacity 60 to 70 envelopes per minute.
Clean and accurate filling.
Simple construction and operation.

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The right fabric for the purpose . . . the right design printed on the bags . . . the right price — you get these when you buy AMES sacks.

Leading bag users have been coming to us for cotton bags for 30 years.

Let us figure with you.

Write for Prices and Samples

AMES BAG MACHINE CO.
1991 E. 66th St., CLEVELAND, O.



THERE'S NO BETTER BAG AT ANY PRICE

Ask for a Sample and be Convinced

FULTON BAG & COTTON MILLS

Manufacturers
Since 1870

Atlanta — St. Louis
Brooklyn — New Orleans
Dallas — Minneapolis
Kansas City, Kans.

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Anderson Box Co.
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Container Corp. of America
Chicago, Ill.
Disbrow Mfg. Co.
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Evans Fibre Box Co.
Chicago, Ill.
Hinde & Dauch Paper Co.
Sandusky, Ohio

BULB EDGE GLASS

Heller & Co., W. C.
Montpelier, Ohio

CANS—FIBRE AND TIN

American Can Co.
Chicago, New York and San Francisco
Sefton Nat'l Fibre Can Co.
Chicago, Ill.

CANVAS COVERS

Hettrick Mfg. Co.
Toledo, Ohio

CARTONS—PAPER

Bird & Son
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Campbell Box & Tag Co.
South Bend, Ind.
Container Corp. of America
Chicago, Ill.
Disbrow Mfg. Co. (Corrugated)
Newark, N. J.
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Du Bois Press
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Schmidt Lithograph Co.
San Francisco, Cal.
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Stecher-Traung Lithograph Corp.
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Philadelphia, Pa.

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Disbrow Mfg. Co.
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Genesee Valley Lithograph Co.
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Schmidt Lithograph Co.
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Stecher-Traung Lithograph Corp.
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Benton Review Shop
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Dubois Press
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Excelsior Printing Co.
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Genesee Valley Lithograph Co.
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Horticultural Press, Inc., The
Chicago, Ill.
McFarland Co., J. Horace
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Schmidt Lithograph Co.
San Francisco, Cal.
(See Adv. on Page 7)
Stecher-Traung Lithograph Corp.
Rochester, N. Y.
(See Adv. on Page 329)
Wallace-Homestead Co.
Des Moines, Iowa

CATALOG ILLUSTRATIONS

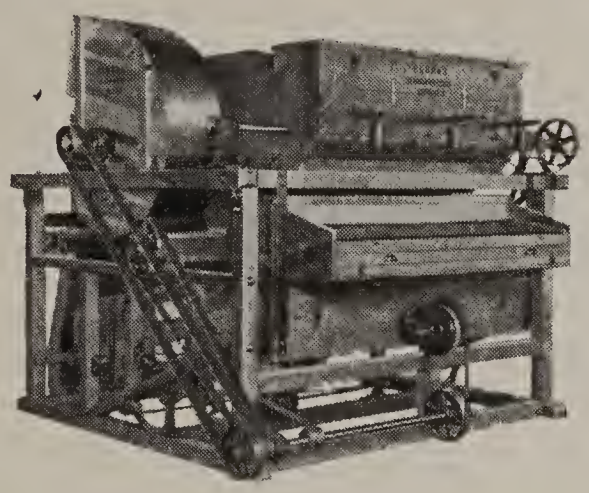
McFarland Co., J. Horace
Harrisburg, Pa.
Pitts Studios, Inc.
Rochester, N. Y.
Rochester Horticultural Studios
Rochester, N. Y.

CATALOG PRINTERS

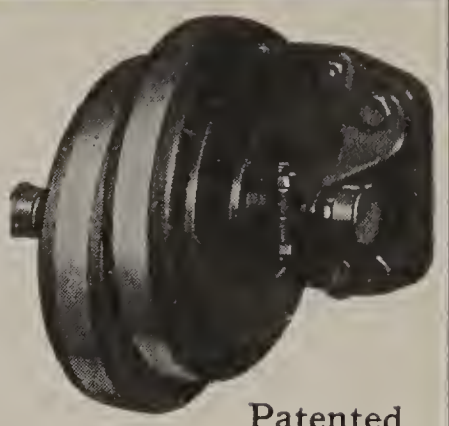
Benton Review Shop (Stock Seed Catalogs)
Fowler, Ind.
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Byrd Press, Inc., The Wm.
Richmond, Va.
DeLaMare Co., Inc., A. T.
New York, N. Y.
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Excelsior Printing Co.
Chicago, Ill.
Grinnell Litho. Co.
New York, N. Y.
Hall Printing Co., W. F.
Chicago, Ill.
Horticultural Press, Inc., The
Chicago, Ill.
Horticultural Syndicate (Stock Seed Catalogs)
Chicago, Ill.
Kable Bros. Company
Mount Morris, Ill.
McFarland Co., J. Horace
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Sweeney, Straub & Dimm (Stock Seed Catalog)
Portland, Ore.
Wallace-Homestead Co.
Des Moines, Iowa

"Magic-EUREKA-Screen"

Cleaners



Today's most modern — the world's finest in quality construction. Simplest, most finely controlled of all Cleaners — for every kind of cleaning — for every kind of seed.



Patented

Eccentricless Drive

A **frictionless, wearless, fire-proof** Screen Intensifier that establishes the finest, truest, cleaning standards ever achieved in seed cleaning — at a capacity **actually 15 to 25%** greater than any 'eccentric' drive has ever accomplished.

Ask for Catalog 137

at lower cost — cleaner seed

the **finer** standards maintained **in all** cleaning with "Eurekas" is a direct source of large savings—large earnings—to every owner: results obtained at greater capacity—with less power . . . a lifetime of repairless service.

We Build
Recleaners-Reclaimers
Graders-Polishers-Mixers

S. Howes Co., Silver Creek, N. Y.
Since 1856—82 years—makers of Quality Cleaners

Makes Embossed Metal Labels



This hand machine is easily operated, an economical way to procure garden labels. Made from special metal, will not rust, corrode or tarnish. Holes punched 2 inches apart, strip 25 feet long.

Write for particulars
U. S. Labelograph

MILLER ENGINEERING MACHINE CO., Inc.
31 E. Kinney St. NEWARK, N. J.

SEED CATALOGS

Color cover that sells for only $6.00 per 100 or $50.00 per 1000 with your name imprinted.

Send for sample.

Nursery SHIPPING TAGS

A set of planting directions combined with a sturdy tag that will not tear even if wet. They must be good for the House of Gurney use 50,000 per year. Send for sample. They are worth it.

CATALOG PRINTING

For 25 years we have been assembling engravings, machinery and experience for the production of fine catalogs.

***The* BENTON REVIEW SHOP**
FOWLER INDIANA

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Albrecht & Co.
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Oliver Mfg. Co.
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Muncy, Pa.

Sutton, Steele & Steele, Inc.
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Oliver Mfg. Co.
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Savage Co., W. J.
Knoxville, Tenn.

Universal Hoist & Mfg. Co.
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Dubois Press
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Genesee Valley Litho. Co.
Rochester, N. Y.

Horticultural Press, Inc., The
Chicago, Ill.

McFarland Co., J. Horace
Harrisburg, Pa.

Morse Co., A. B.
St. Joseph, Mich.

Pitts Studios, Inc.
Rochester, N. Y.

Schmidt Litho. Co.
San Francisco, Cal.
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Stecher-Traung Litho. Co.
Rochester, N. Y.
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Straub Co.
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Williams Patent Crusher & Pulv. Co.
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Hogmoe Mfg. Co.
Minneapolis, Minn.
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Davis Metal Fixture Co.
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Everitt's Convertible Display Case Co.
Decatur, Ga.

Hamilton Mfg. Co.
Two Rivers, Wis.

Heller & Co., W. C.
Montpelier, Ohio

Manitowoc Building Supply Co.
Manitowoc, Wis.

Walkerbilt
Penn Yan, N. Y.

Webster Co., Mel. L.
Independence, Iowa

Worcester Wire Novelty Co., Inc.
Baltimore, Md.

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Rochester, N. Y.

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Randolph Co., O. W.
Toledo, Ohio

Richards & Sons, Ross V.
North Manchester, Ind.

Where SEED CLEANING Demands Positive Length Separations-



Only Carter Discs Can Qualify!

Alsike, White Clover and Timothy

Separation by length is the only method that can accurately remove buckhorn, Canada thistle and quack grass from alsike, white clover and timothy. Carter Discs contain small pockets which pick up the alsike, clover or timothy, but reject the Canada thistle, buckhorn and longer foreign material. As Carter Discs separate they also brighten the seed, giving it a better market appearance.

Red and Sweet Clovers, Alfalfa

For cleaning red and sweet clover and alfalfa the pockets in the discs are larger than in the alsike discs — but are still small enough to reject Canada thistle, quack grass, sticks, etc., because this foreign material is longer than the good seed.

Rye Grass and Crested Wheat Grass

A length separation is especially necessary in cleaning rye grass and crested wheat grass, not only for the removal of foreign material that is longer than the good seed but for the removal of shorter matter as well. Carter Discs accurately remove clover and other small seeds from rye grass and crested wheat grass and separate out objectionable longer material.

Vetches

Wherever vetches are grown Carter Discs play an important part in separating vetch from oats, wheat, etc. At the same time, if desired, the discs will make a wheat and oat separation. Carter Discs solve a difficult cleaning problem for growers and handlers of vetches.

Miscellaneous--Millet, Beet, Onion, Radish Seeds and Canary Seed

Special Disc Separators have been built to remove longer foreign material from radish, beet and onion seeds — and to separate hulled from unhulled canary seed. Discs are also used for removing longer foreign material from millet — and for the cleaning of flax seed.

Special Equipment Grades Hybrid Corn, By Length

With the growing popularity of hybrid corn — seed companies are profiting by installing Hart-Carter equipment for length grading of hybrid seed corn. Write for information.

HART · CARTER COMPANY

655 Nineteenth Avenue, N. E. **Minneapolis, Minnesota**

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Howes Co., Inc., S.
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Ideal Commutator Dresser Co.
Sycamore, Ill.

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Chicago, Ill.

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Miller, Tompkins & Co.
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Outlook Envelope Co.
Chicago, Ill.
Watkins Envelope Co.
Napoleon, Ohio
Weaver Mailing Envelope & Box Co.
Philadelphia, Pa.
Wolf Brothers
Philadelphia, Pa.

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Arnold, Schuyler
Coldwater, N. Y.
Brown Bag Filling Machine Co.
Fitchburg, Mass.
Ferguson Co., J. L., (Carton)
Joliet, Ill.
Stokes & Smith Co., The
Philadelphia, Pa.
Wright-Dalton Machine Co.
Durham, N. C.

FENCING

Continental Steel Corp.
Kokomo, Ind.
Cyclone Fence Co.
Waukegan, Ill.
Michigan Wire Goods Co.
Niles, Mich.
Plymouth Stamped Metal Co.
Galion, Ohio
Unadilla Silo Co.
Unadilla, N. Y.

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Bridges Mfg. Co.
Bedford, Iowa
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Seed Trade Reporting Bureau
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Hogmoe Mfg. Co.
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Wilmington, Ohio
Huntley Mfg. Co.
Brocton, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.
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Savage Co., W. J.
Knoxville, Tenn.
Sutton, Steele & Steele, Inc.
Dallas, Texas
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Universal Hoist & Mfg. Co.
Cedar Falls, Iowa
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Michigan Wire Goods Co.
Niles, Mich.

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Foley Greenhouse Mfg. Co.
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Lord & Burnham Co.
Irvington, N. Y.
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
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Yoho & Hooker
Youngstown, Ohio

MILLER - TOMPKINS
GARDEN SEED BAGS
ARE ALWAYS RELIABLE

BROWNIE Kraft Gummed Packets are made the only way they should be made—with NO bottom seam to work open and leak on fine seeds.,

BROWNIE Satchel Bottom Bags are properly made from the highest grade, best-looking Kraft Paper on the market—Satisfaction Guaranteed.

Beautifully Printed—Artistic Designs



Write for Samples and Our Low Prices.

MILLER, TOMPKINS & CO.
East Rutherford, N. J.





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Anglo-American Mill Co.
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Shortsville, N. Y.
Patch, Inc., A. H.
Clarksville, Tenn.
Savage Co., W. J.
Knoxville, Tenn.
Straub Co.
Philadelphia, Pa.
Williams Patent Crusher & Pulv. Co.
St. Louis, Mo.
W. W. Grinder Corp.
Wichita, Kans.

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Cleland Mfg. Co.
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Saginaw, Mich.
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Hart-Carter Company
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Hogmoe Mfg. Co. (With Variable Speed Control Unit)
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Thompson Mfg. Co.
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Stecher-Traung Litho. Co.
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Heller & Co., W. C.
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Sedberry, Inc., J. B.
Franklin, Tenn.
Sprout, Waldron & Co.
Muncy, Pa.
Straub Co.
Philadelphia, Pa.
Williams Patent Crusher & Pulv. Co.
St. Louis, Mo.

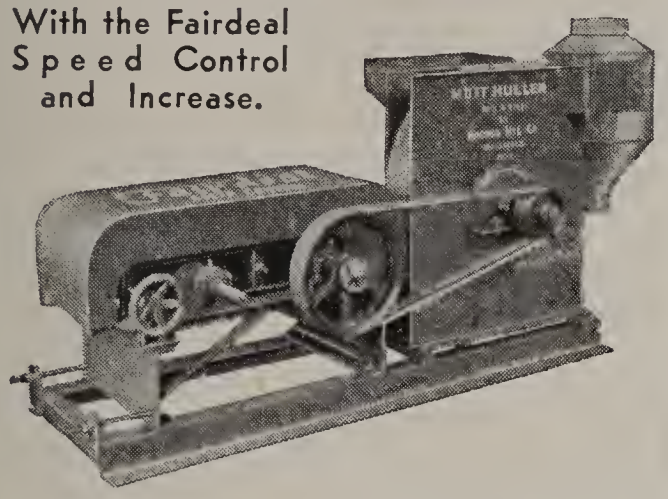
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Baum, H. C.
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Ferguson Co., J. L.
Joliet, Ill.
Frazier & Son
Belleville, N. J.

use the **MOTT**

SEED HULLER & SCARIFIER

With the Fairdeal Speed Control and Increase.



ECONOMY - EFFICIENCY and CAPACITY

Designed to handle all kinds of seeds requiring hulling and scarifying and durability in construction, flexibility in adjustment to various seeds. No rasps, burrs, blades, knives or abrasive surface. Capacity 40 to 160 bushels per hour, actual. Various speed of 1200 to 3400 R. P. M.

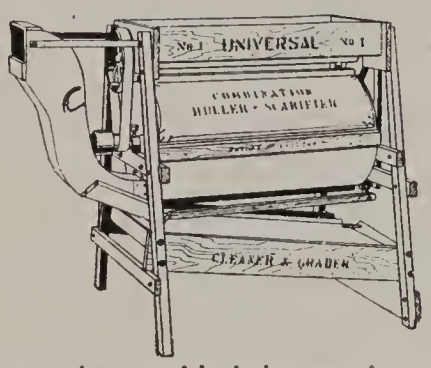
HOGMOE MFG. COMPANY

319 Washington Ave. N., MINNEAPOLIS, MINN.

UNIVERSAL

COMBINATION

HULLER - SCARIFIER CLEANER



A machine built especially for Seed Growers, Seed Houses. This machine will Hull, Scarify and Clean, Alfalfa, Sweet Clover, Crotalaria, Sericea, Bermuda Seed, etc. Save your present losses which can now be avoided by owning one of these machines which will pay for itself many times each season.

WRITE FOR DESCRIPTIVE LITERATURE AND PRICES

AMERICAN GRAIN SEPARATOR CO.

MINNEAPOLIS, MINNESOTA

THE MORECORN SEED CORN GRADER



Most efficient and accurate Grader for all varieties of Field Corn, Sweet Corn, Pop Corn as well as beans and other similar grains. Illustration above shows style No. 3, capacity 30 to 40 bushels per hour equipped with electric motor drive. Air Fan Cleaning attachment furnished if desired.

Also made in two smaller sizes with capacity of 6 or 12 bushels per hour.

Morecorn Graders have been made and sold for the past 25 years, fully guaranteed subject to 10 days trial. Write for detailed information and prices.

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THE OLD RELIABLE

Specific Gravity Separator

SUTTON, STEELE, & STEELE, Incorporated

DALLAS, TEXAS

British Empire Manufacturers & Licensees:

KIPP KELLY, LTD., 68 Higgins Ave., Winnipeg, Canada

SEPARATIONS ENGINEERING, LTD., 133 Bush House, Aldwych, London, W. C. 2, England

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Consolidated Water Power & Paper Co.
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International Paper Co.
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Joliet, Ill.
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Toledo Scale Co.
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Nevada, Iowa

Savage Co., W. J.
Knoxville, Tenn.

SCREENS

Cleland Mfg. Co.
Minneapolis, Minn.
(See Adv. on Page 161)

SAVES!

Your Profits in Seeds—

Why gamble with your seed weights? Package and check weigh flower and garden seed to fine fraction ounce accuracy in one operation. Save both seed and time. Overweight seriously cuts profits . . . underweight hurts customer goodwill. Seedsmen from coast to coast use EXACT WEIGHT SCALES because they pay real dividends.

Write for complete scale catalog for seedsmen — do it before the busy season starts.



EXACT WEIGHT seed sacking scale to 22 lbs. capacity. Recommended for packaging garden seeds.



EXACT WEIGHT counter or packaging scale of 3 lbs. capacity. Nickel silver open scoop in three sizes.

EXACT WEIGHT SCALE CO.

18 W. Fifth Ave. Columbus, Ohio

"THERE IS NO SUBSTITUTE FOR EXACT WEIGHT"

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DETECTO-GRAM STOPS LOSSES!

You'd pick up a penny from the floor because you see it there. But what about the dollars that are lost daily through unseen over-weight?

Overweight steals a good part of profit. Ordinary scales aren't sensitive enough to weigh seeds. By using a Detecto-Gram, overweight loss is eliminated, and at the same time customers are assured of full packages.

Make your own test on the Detecto-Gram. Place a dollar bill on the platter, and you will be amazed how the indicator swings and shows the weight of this **single** dollar bill. The wide travel of the Detecto-Gram indicator shows even the slightest weight error. An air-controlled dashpot cushions the movement of the indicator so that it stops immediately at correct weight, saving the operator's time.

Detecto-Gram is famous in the seed industry because each weighing problem is treated individually. Write for complete information and prices on the Detecto-Gram that will answer **your** weighing need. Of course, without obligation.

Representatives in All Principal Cities



No. 724 DETECTO-GRAM

Designed for speedy, accurate weighing of seeds. Capacity: 3 lbs. by ⅛ oz. Has nickel plated knob weights, aluminum weight holder, and specially designed scoop. Finished in green enamel. Other models weigh to 16 lbs.

DETECTO-GRAM HAIRLINE ACCURACY SCALES

Division of The JACOBS BROS. CO., Inc.

MAIN & WATER STS., BROOKLYN, N. Y., Dept. G4

TRINER
SEED SCALES

Parcel Post, Mail, Packing,
Counting, Storeroom,
Production, Food Products,
Shipping Room, Industrial

SCALES

OVER 150,000 TRINER MAIL AND PARCEL POST SCALES IN U. S. POSTOFFICES

Designed for extraordinary weighing requirements—write today for literature and details

TRINER SALES CO.

National Distributors

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Chicago, Illinois

Distributors in all principal cities



No. 7857 SCALE

Henry Troemner

Manufacturer

Fine Balances, Scales,
Weights for Testing
and Grading of Seed,
Grain, etc.

Sensitive to 1/128 ounce

Many Types for Many Uses

EST. 1840

CATALOG No. 1926 S

911 ARCH ST. PHILA., PA.

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Dayton, Ohio
Walkerbilt
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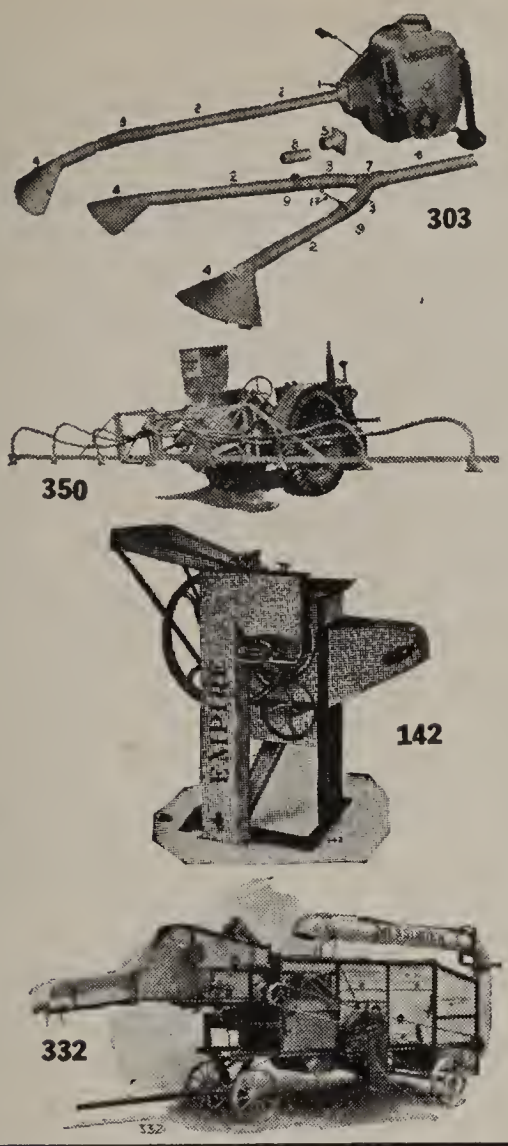
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Benton Review Shop
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Campbell Box & Tag Co.
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Cupples-Hesse Env. & Litho. Co
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TARPAULINS

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Toledo, Ohio
Katz Bag Co., Max
Indianapolis, Ind.

DUSTERS · 8 SIZES · 80 MODELS



THRESHERS · CORN SHELLERS

MESSINGER MFG. CO. TATAMY, PA.



GRIP-LOCK

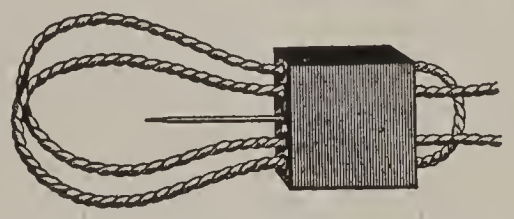
the foolproof

Self-Locking BAG SEAL

VERIFIED ORIGIN SEED

The GRIP-LOCK is the very latest development in Bag Seals and is ideal for seedsmen's use. It prevents substitution and adulteration. After being once locked, relocking is impossible. It is also simple and easy to use as no machine is needed.

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PROTECTO - SEAL

Seals and Sells!

PROTECTO-SEAL

is more than just a TAMPER PROOF SEAL. It is a LABEL of QUALITY.

★ **PROTECTO - SEAL** ★

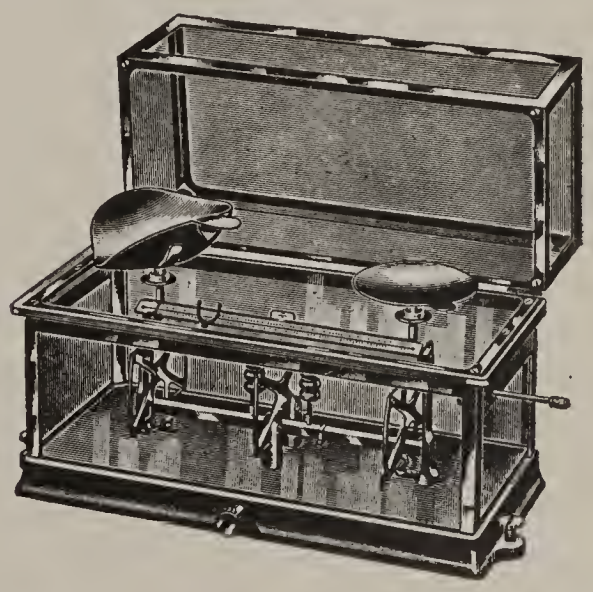
is the ONLY seal that will seal your seed bags and IDENTIFY your product as QUALITY MERCHANDISE by displaying your trade mark or brand name in good strong color.

Write for Samples and Complete Information.

PROTECTO-SEAL Co., Inc.

P. O. Box 44

ORCHARD PARK, N. Y.



Torsion Balances for Seed and Grain Testing.

The accepted standard for all accurate weighing.

We sell **Christian Becker Balances** for seed testing, analytical work, etc.

Write for literature stating your requirements.

THE TORSION BALANCE CO.

92 Reade St., NEW YORK CITY

228 No. La Salle St., CHICAGO

584 Mission St., SAN FRANCISCO

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Better Homes & Gardens
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Collier's
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Crowell Publishing Co.
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Ft. Atkinson, Wis.
Holland's Magazine
Dallas, Texas
House and Garden
New York, N. Y.
House Beautiful
New York, N. Y.
Household
Topeka, Kansas
Ladies Home Journal
Philadelphia, Pa.
McCall's Magazine
New York, N. Y.
Nature Magazine
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Pittsburgh, Pa.
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